

## STIC Search Report Biotech-Chem Library

### STIC Database Tracking Number: 109354

TO: Terra Gibbs

Location: CM1/12A12/11E12

**Art Unit: 1635** 

Monday, December 01, 2003

Case Serial Number: 09/954556

From: David Schreiber

**Location: Biotech-Chem Library** 

CM1-6A03

Phone: 308-4292

david.schreiber@uspto.gov



COLUMN AND BEACHT

## **SEARCH REQUEST FORM**

Requestor's Name:		Serial Number:		<u> </u>
Date:	Phone:		Art Unit:	_
terms that may have a special m	t of search topic. Describe specifica eaning. Give examples or relevent ence. You may include a copy of the	citations, authors, ke	ubject matter to be searched. Define any ywords, etc., if known. For sequences, est relevent claim(s).	
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Date completed: 12/1  Searcher: 9 5 (h / r )		_ STIC	Vendors IG	
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PTO-1590 (9-90)

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From:

Gibbs, Terra

Sent:

Friday, November 21, 2003 12:14 PM

To:

Schreiber, David

Subject:

Sequence search request...

Hi David,

Doug Schultz and Karen LaCourcicie recommended that I send you this search request.

I have a request for a score over length search:

I need a length limited nucleotide sequence search against nucleobases 1317-2720 of SEQ ID NO:3 of USSN 09/954,556, where the returns are rank ordered based on the score over length/ratio as we've discussed. I need the lengths limited to hits between 8 and 50 nucleotides, and I'll take as many hits as you can import into excel (64,000?), and alignments for anything above .75 on the above ratio. Hope this is clear, please call me if it's not.

Terra Cotta Gibbs, Ph.D. Art Unit 1635 CM1, 12A12 703-306-3221 OLDEN AND BEACHT

#### Schreiber, David

From:

Fredman, Jeffrey

Sent:

Tuesday, November 25, 2003 7:06 AM

To: Cc: Schreiber, David Gibbs, Terra

Subject:

FW: Sequence search request (RUSH)...

#### PLEASE RUSH

I Approve.

#### Jeff Fredman

-----Original Message-----

From:

Gibbs, Terra

Sent:

Monday, November 24, 2003 10:40 AM

To:

Fredman, Jeffrey

Subject:

FW: Sequence search request (RUSH)...

This case is an AF. I need an immediate sequence search.

Could you please approve the RUSH?

Also, this sequence search request has to be sent to David Schreiber, instead of STIC-Biotech in general.

#### Thanks.

----Original Message-----

From:

Gibbs, Terra

Sent:

Friday, November 21, 2003 12:14 PM

To:

Schreiber, David

Subject:

Sequence search request...

#### Hi David,

Doug Schultz and Karen LaCourcicie recommended that I send you this search request.

I have a request for a score over length search:

I need a length limited nucleotide sequence search against nucleobases 1317-2720 of SEQ ID NO:3 of USSN 09/954,556, where the returns are rank ordered based on the score over length/ratio as we've discussed. I need the lengths limited to hits between 8 and 50 nucleotides, and I'll take as many hits as you can import into excel (64,000?), and alignments for anything above .75 on the above ratio. Hope this is clear, please call me if it's not.

Terra Cotta Gibbs, Ph.D. Art Unit 1635 CM1, 12A12 703-306-3221 OHEN MATERIAL SHIP



# STIC SEARCH RESULTS FEEDBACK FORM

## Biotech-Chem Library

Questions about the scope or the results of the search? Contact the searcher or contact:

Mary Hale, Information Branch Supervisor 308-4258, CM1-1E01

Voluntary Results Feedback Form
> I am an examiner in Workgroup: Example: 1610
> Relevant prior art <b>found</b> , search results used as follows:
☐ 102 rejection
☐ 103 rejection
Cited as being of interest.
Helped examiner better understand the invention.
Helped examiner better understand the state of the art in their technology.
Types of relevant prior art found:
☐ Foreign Patent(s)
<ul> <li>Non-Patent Literature         <ul> <li>(journal articles, conference proceedings, new product announcements etc.)</li> </ul> </li> </ul>
> Relevant prior art not found:
Results verified the lack of relevant prior art (heiped determine patentability).
Results were not useful in determining patentability or understanding the invention.
Comments:

Diep official completed forms to STICE to the Circuit Library Civil — Circ. Desk



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Champion-Arnaud, P., Ronsin, C., Gilbert, E.,
HOussaint, E. and Breathnach, R.
Multiple mRNAs code for proteins related to
growth factor receptor
Oncogene 6 (6), 979-987 (1991)
91296403
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A29208
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Location/Qualifiers
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A29208
A29208.1 GI:1248929
                             1 (bases 1 to 28)
Yayon,A., Ornitz,D.M., Klagsbrun,M., Leder,P. and Flanagan,J.
System for assaying binding to a heparin-binding growth factor
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Patent: US 5789182-A 5 04-AUG-1998;
Location/Qualifiers
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Location/Qualifiers
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1 (bases 1 to 30)
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Senoo, M., Watanabe, T. and Igarashi, K.
Water-soluble mutein of FGF receptor,
Patent: US 5750371-A 16 12-MAY-1998;
                                                                                                                                                                                                                                               AR007164
Sequence 16 from patent
AR007164
                                                                                                                                                                                                                  Unknown.
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Keating,M.T. and Morris,C.A.

Diagnosis of Williams syndrome and Williams syndrome cognitive profile by analysis of the presence or absence of a LIM-kinase Patent: US 5858662-A 4 12-JAN-1999;
I32953
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1 (bases 1 to 21)

Wilson, S.E.

Wethods and treatments for corneal healing
Patent: US 5703047-A 13 30-DEC-1997;
Patent: US 5703047-Qualifiers
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Jun,S., Eriko,T., Chika,H., Akihiro,I., Masahiro,T.
Immortalized human papilla pili cell and method for
growth stimulants with the use of the same
Patent: JP 1999089565-A 22 06-APR-1999;
                                                                                                                                                  Immortalized human papilla pili cell and method growth stimulants with the use of the same.
SHISEIDO CO LTD
OS Unidentific
PN JP 19990899
                                                                                                                            E23733.1 GI:13024481
JP 1999089565-A/22.
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                                                          and Hiroshi,H. evaluating hair
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                                                                        unidentified unidentified unclassified.
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Sequence 13 from Patent WO9705278.
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DALGETY PLC (GB)
                      Andersson, L., Moller, M.J., Wales, R., Siggens, K.W. and Plastow, G.S METHODS FOR DETERMINING THE COAT COLOUR GENOTYPE OF A PIG Patent: WO 9705278-A 13 13-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                               1 (bases 1 to 26)
Senoo, M., Watanabe, T. and Igarashi, K.
Water-soluble mutein of FGF receptor,
Patent: US 5750371-A 17, 12-MAY-1998;
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/mol_type="genomic DNA"
/db_xref="taxon:32644"
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                                                                                              Methods for determining the coat color Patent: US 6183955-A 13 06-FEB-2001;
                                                                                                               Andersson, L., Moller, M. Johansson., Wales, R., Plastow, G. Stuart.
                                                                                                                                                                                                                                                                                                                                                                                                                                       unidentified
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/mol_type="genomic DNA"
/db_xref="taxon:32644"
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                                                             /organism="unknown"
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/mol_type="genomic DNA"
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                                                                                                                                          synthetic construct synthetic construct artificial sequences.
                                                                                            Methods and compositions for antisense vegf oligonucleotides Patent: WO 0152904-A 42 26-JUL-2001;
                                                                                                                     Gill, P.S. and Masood, R.
                                                                                                                                                                                                         Sequence 42 from Patent AX203707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PF 27-MAY-1998 JP 1999500368
PR 30-MAY-1997 GB 9711214.8,31-JAN-1998 GB
PR 30-MAY-1997 GB 9711214.8 GIUFFRA,GARY
EVANS,RICHARD WALLES,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Methods for analyzing animal products Patent: JP 2002504814-A 24 12-FEB-2002; PIG IMPROVEMENT CO UK LTD
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Methods for analyzing animal
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                                                                                   Parkash, S. (US)
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/mol_type="genomic DNA"
/db_xref="taxon:32644"
             note="VEGFR-1
                       /mol_type="genomic DNA"
/db_xref="taxon:32630"
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 AR019576
Sequence
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Regulation of tyrosine hydroxylase expression
Patent: US 6312949-A 39 06-NOV-2001;
Location/Qualifiers
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AR177699
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AX203708
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      synthetic construct synthetic construct
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Sakurada, K., Palmer, T.
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/mol_type="genomic DNA"
/db_xref="taxon:32630"
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24 bp
from patent US 5783666.
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Pred. No. 43;
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             1 (bases 1 to 24)
Albertsen,H., Anand,R., Carlson,M., Groden,J., Hedge,P.J.,
Joslyn,G., Kinzler,K., Markham,A.F., Nakamura,Y., Thliveris,A.,
Vogelstein,B. and White,R.L.
Diagnosis for mutant APC by immunoassay
Patent: US 6413727-A 61 02-JUL-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Albertsen, H., Anand, R., Carlson, M., Groden, J., Hedge, Joslyn, G., Kinzler, K., Markham, A. Fred., Nakamura, Y., Vogelstein, B. and White, R.L. APC (adenomatous polyosis coli) protein Patent: US 5783666-A 61 21-JUL-1998;
                                                                                                       Unknown
                                                                                                                                                           Sequence 61 from patent US
AR217050
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Albartsen, H., Anand, R., Carlson, M., Groo
Joslyn, G., Kinzler, K., Markham, A.Fred.,
Vogelstein, B. and white, R.L.
Detection of APC proteins
Patent: US 6114124-A 61 05-SEP-2000;
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Albertsen, H., Anan
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Patent: US 5648212-A 61 15-JUL-1997;
Location/Qualifiers
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Albertsen, H., Anand, R., Carlson, M., Groden, J.
Joslyn, G., Kinzler, K., Markham, A., Nakamura, Y
Vogelstein, B. and White, R. L.
Detection of inherited and somatic mutations
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Albertsen, H., Anand, R., Carlson, M., Groo
Joslyn, G., Kinzler, K., Markham, A. Fred.,
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ed., Nakamura,Y., Thliveris,A.,
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AX129008
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Sequence 46 from Patent WO9934016.
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Mammalia; Eutheria;
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Mammalia; Eutheria; Primates;
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
                     GI:14135313
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Catarrhini;
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i; Hominidae; Homo.
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Eutheria; Primates;
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AX129009
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1 (bases 1 to 20) McKay,R., Dean,N., Monia,B.P., Nero,P.S. and Gaarde,W.A. Antisense oligonucleotide compositions and methods for t
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Ribozyme therapy for the treatment of proliferative
                                     Unclassified.
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Ribozyme therapy for the treatment of
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/mol type="genomic DNA"
/mol type="genomic DNA"
/db_xref="taxon:9606"
/note="Cdk2 ribozyme binding
/note="Cdk2 ribozyme binding
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/mol_type="genomic DNA"
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                                                       Patent: JP 2001514905-A 62 18-SEP-2001;
ISIS PHARWACEUTICALS INC
OS Artificial Sequence
PN JP 2001514905-A/62
PD 18-SEP-2001
PF 07-AUG-1998 JP 2000509875
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                                                                                                                                                        Mckay,R., Dean,N., Monia,B.P., Scott,P., Nero and Gaarde,W.A. Antisence oligonucleotide composition and modulation method of JNK
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              NERO, WILLIAM A GAARDE
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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C12Q1/68, A61K31/7088, A61K48/00, A61P35/00, C12N15/09, C12P19/34,
                   07-AUG-1998 JP 2000509875
13-AUG-1997 US 08/910629
ROBERT MCKAY,NICHOLAS DEAN,BRETT P MONIA,PAMELA SCOTT
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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Ward, D.T. and Watt, A.T.
Antisense modulation of RECQL2 expression
Patent: US 6399378-A 38 04-JUN-2002;
                                                                                                                                                                                             AR211982
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Sakurada,K., Palmer,T. and Gage,F.H.
Regulation of tyrosine hydroxylase expression
Patent: US 6312949-A 40.06-NOV-2001;
                                                                                                                                                                                                                                                                                                                                                                                                 Unknown
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                                                                              1 (bases 1 to 21)
Matson,R.S., Coassin,P.J., Rampal,J.B.
Oligonucleotide repeat arrays
Patent: US 5981185-A 44 09-NOV-1999;
                                                                                                                                   Unclassified
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PC (C12P21/02,
Strandedness:
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MASAHIRO TAJIMA,
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JP 1999089565-A/24.
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                                                                Location/Qualifiers
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AR084576
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Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.
Oligonucleotide repeat arrays
Patent: US 5981185-A 65 09-NOV-1999;
Location/Qualifiers
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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Conrad,D.H. and Kelly,A.E.
Conrad,D.H. and Kelly,A.E.
LZ-CD23 chimera for inhibition of IgE-mediated allergic disease
                                                                   1 (bases 1 to 20)
Monia, B.P., Gaarde, W.A., Freier, S.M. and
Antisense modulation of TERT expression
Patent: US 6492171-A 61 10-DEC-2002;
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AR139522
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Keating,M.T. and Splawski,I.

Mutarions in and genomic structure of HERG--a long

Patent: US 6207383-A 39 27-MAR-2001;
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AR192109
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16; Conserv
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Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or or
related to levels of vascular endothelial growth fact
Patent: US 6346398-A 7597 12-FEB-2002;
 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   synthetic construct
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artificial sequences.
          AX482165
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Location/Qualifiers
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AX590585
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/mol_type="genomic DNA"
/db_xref="taxon:32630"
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                                                                                              Sequence 144 from Patent AX721765
van der Kuyl,A.C. and Cornelissen,M.
Means and methods for treatment evaluation
                                                                                                                                                                                                                                                                                                                                                           van der Kuyl,A.C. and Cornelissen,M.
Means and methods for treatment evaluation
Patent: WO 02059589-A 142 01-AUG-2002;
Amsterdam Support Diagnostics B.V. (NL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 142 from Patent AX511404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    van der Kuyl,A.C. and Cornelissen,M. Means and methods for treatment evaluation Patent: EP 1225233-A 142 24-JUL-2002; Amsterdam Support Diagnostics B.V. (NL) Location/Qualifiers
                                                          synthetic construct
                                                                                    AX721765.1
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/db_xref="taxon:32630"
/note="3'TAG019GENE-2"
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/mol_type="genonic DNA"
/db xrefs"teaxon:32630"
/noTe="3'TAG019GENE-2"
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AR222435/c
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A95063/c
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A95063
                                                                      1 (bases 1 to 19)
Bowler,C. and Mustilli,A.C.
Nucleotide sequences encoding the tomato light hypersensitive
phenotype, encoded proteins and uses thereof
Patent: US 6429299-A 5 06-AUG-2002;
Location/Qualifiers
                                                                                                                                                              Unknown
                                                                                                                                                                          Unknown.
                                                                                                                                                                                                  AR222435.1
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BOWLER CHRIS (GB); STAZIONE ZOOL ANTON DOHRN (IT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 (bases 1 to 19)
Bowler, C. and Mustilli, A.C.
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                                                                                                                                                   Unclassified.
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                                     /organism="unknown"
6 c 3 g
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/mol_type="genomic DNA"
/db_xref="taxon:32644"
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/db xref="taxon:32630"
/note="primer 3'TAG019GENE-2"
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Pred. No. 1e+02;
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BD102783/c
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AR103195/c
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Nucleotide sequence encoding tomato photosensitive protein encoded thereby and utilization thereof Patent: JP 2001528034-A 4 18-DEC-2001;

STAZIONE ZOOLOGICA ANTON DOHRN
                                                                                                                                                                                Sequence 89
AR103195
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                                                                    1 (bases 1 to 20)
Yuan,J. and Miura,M.
Programmed cell death genes and proteins
Patent: US 6087160-A 89 11-JUL-2000;
                                                                                                                    Unknown.
Unclassified.
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C12N15/09, A01H5/00, C07K14/415, C12N15/00
Nucleotide sequence encoding tomato photosensitive
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JP 2001526034-A/4
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09-DEC-1997 IT RM97A000760
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                       organism="unknown"
8 c 1 g
                                                          Location/Qualifiers
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/db_xref="taxon:32630"
6 c 3 g
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Pred. No. 1e+02;
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                                                16;
                                                                                                                                                                                                                                                              Mus sp.
Mus sp.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata; Sciurognathi; Muridae; Murinae; Mus
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus
                                                                                                                                                                                                                                                                                                                                                                 Sequence
AX298917
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Clostridium perfringens
Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;
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Sequence 7 from Patent WO0136673.
AX147705
                                                                                                                                                                                                       Bachmanov, A.A., Beauchamp, G.K., Chatterjee, A
Li, X., Ohmen, J.D., Reed, D.R., Ross, D. and To
Gene and sequence variation associated with
compounds and other sweeteners
Patent: WO 0183749-A 551 08-NOV-2001;
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Patent: WO 0136673-A 7 25-MAY-2001;
Creatogen Aktiengesellschaft (DE)
Location/Qualifiers
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                                                                                                                              /organism="Mus sp."
/mol_type="genomic DNA"
                                                                                                                                                                    Location/Qualifiers
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/mol_type="genomic DNA"
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Pred. No. 1.1e+02;
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Pred. No. 1.1e+02;
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oss, D. and Tordoff, M.
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YAKULT HONSHA CO LTD,YAKULT BIOSCIENCE KENKYU ZAIDAN
OS Artificial Sequence
PN JP 2001112485-A/11
PD 24-APR-2001
PF 19-CCT-1999 JP 199296815
PF 19-CCT-1999 JP 199296815
PI KIKUJI ITO,EISAKU KIKUCHI,TAKAHIRO MATSUKI,YUKIKO MIYAMOTO
CC C12N15/09,C12Q1/68,C12N15/00
CC
FH Key Location/Oualifiare
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                                                                                                                                                                     DNA coding protein kinase
Patent: US 5827726-A 3 27-OCT-1998;
Docation/Qualifiers
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1 (bases 1 to 20)

1to,K., Kikuchi,B., Matsuki,T. and Miyamoto,Y.

Primer for enteric bacteria and detection method with the
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synthetic construct
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Primer for enteric bacteria and
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                                              GTGGCCGTGAAGATGTTGAA 1832
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/mol type="genomic DNA"
/db_xref="taxon:32630" 5 t
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Pred. No. 1.1e+02;
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Pred. No. 1.1e+02;
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AX020769
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AR314742
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17; Conserv
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Unknown.
   Vider, B.Z.

A method for identifying and characterizing Patent: WO 9934016-A 269 08-JUL-1999; GENENA LTD (IL); VIDER BEN ZION (IL)
                                                                                  Homo sapiens (human)
Homo sapiens
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Sankaran,B. and Fletcher,L.D.
Chlamydia pneumoniae polymucleotides and
Patent: US 6559294-A 5279 06-MAY-2003;
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                                                             Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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Sequence 140 from Patent
AX326944
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A method for identifying and characterizing Patent: WO 9934016-A 275 08-JUL-1999; GENENA LTD (IL); VIDER BEN ZION (IL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 275 from Patent AX020775
                                                                                                                                          Novel human gene relating to respiratory diseases, obesity, and inflammatory bowel disease Patent: WO 0178894A 140 25-OCT-2001; Genome Therapeutics Corp. (US)
                                                                                                                                                                                                                                     synthetic
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Mammalia; Eutheria; Primates;
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                                                                         organism="synthetic construct"

mol_type="genomic DNA"

db_xref="taxon:32630"
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/db_xref="taxon:9606"
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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PATENT: JP 1996308586-A 2
CHUGAI PHARMACEUT CO LTD
OS None
OC Artificial sequences.
PN JP 199630856-A/2
PD 26-NOV-1996
PF 15-MAR-1996 JP 1996087
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                                                                                                                                                                                                                                                                                             E12301.1 GI:3251135 JP 1996308586-A/2.
strandedness: Single;
CC topology: Linear;
CC hypothetical: No;
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JP 1996308586-A/2
26-NOV-1996
15-MAR-1996 JP 1996087498
16-MAR-1995 JP 95P 57104
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ilarity 85.0%;
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                                          C12Q1/68, (C12N1/21, C12R1:19), (C12N9/12, C12R1:19); CC
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/mal_type="genomic DNA"
/mal_type="genomic DNA"
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/note="Oligonucleotide primer f
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                                                                                                                                                                                                                                                                                      corresponding mutant line and a link to a database providing a graphical display of the insertion site are available at http://dbsgap.versailles.inra.fr/publiclines/. This sequence he been generated in the framework of the French plant genomics program 'Genoplante' (http://www.genoplante.com and http://genoplante_info.infoblogen.fr).
                                                                                                                                                                                                                                                                                                                                                                                                       Submitted (21-NOV-2002) Balzergue S., UMRGV, INRA/CNRS, 2 rue Gaston Cremieux, 91057 Evry cedex, FRANCE
PCR was performed on DNA from transformants of Arabidopsis thaliana plants from INRA (Versailles). The DNA fragment(s) resulting from the PCR were directly sequenced from the left or the right border to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed. Information to order the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Brunaud, V., Balzergue, S., Dubreucq, B., Aubourg, S., Samson, F., Chauvin, S., Bechtold, N., Cruaud, C., DeRose, R., Pelletier, G., Lepiniec, L., Caboche, M. and Lecharny, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AJ527748.1 GI:26796008
left border; T-DNA flanking sequence.
Arabidopsis thaliana (thale cress)
Arabidopsis thaliana
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Location/Qualifiers
                                                                                            /note="T-DNA flanking
                                                                                                                                                                                           /mol_type="genomic DNA"
/cultivar="Wassillewskija"
                                                                                                                                                                                                                                  organism="Arabidopsis thaliana"
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                                                                                                                                                       clone="146F12"
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RESULT 63
DOGHOX7B/c
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                                     DEFINITION
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ATH527822/c
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MEDLINE
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Best Local
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tagged site.
L77371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCR was performed on DNA from transformants of Arabidopsis thaliana plants from INRA (Versailles). The DNA fragment(s) resulting from the PCR were directly sequenced from the left or the right border to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed. Information to order the corresponding mutant line and a link to a database providing a graphical display of the insertion site are available at http://dbsgap.versailles.inra.fr/publiclines/. This sequence has
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17;
                                 DOGHOX7B 20 bp
Canis familiaris Homeobox 7 (HOX7)
                                                                                                                                                                                                                            17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           been generated in the framework of the French plant genomics program 'Genoplante' (http://www.genoplante.com and http://genoplante-info.infobiogen.fr)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AJ577822.1 GI:26796082
left border; T-DNA flanking sequence.
Arabidopsis thaliana (thale cress)
Arabidopsis thaliana
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Submitted (21-NOV-2002) Balzergue S
Gaston Cremieux, 91057 Evry cedex,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of pre-insertion sites EMBO Rep. 3 (12), 1152-1157 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Brunaud, V.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATH527822
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Arabidopsis thaliana T-DNA flanking sequence, left border, clone
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                                                                                                                                                                                                                                            Similarity
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_DNA integration into the Arabidopsis genome depends on sequences
                                                                                                                                                  AAACATGTATTCATTAAGAT 1
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                                                                                                                                                                                                                                                                                                  left border"
                                                                                                                                                                                                                                                                                                                                         /note="T-DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                 organism="Arabidopsis thaliana"
|mol_type="genomic DNA"
|cultivar="Wassillewskija"
                                                                                                                                                                                                                                                                                                                                                                           clone_lib="Arabidopsis thaliana
                                                                                                                                                                                                                                                                                                                                                                                                'clone="149B02"
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                                                                                                                                                                                                                                            Score 15.2;
Pred. No. 1.
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                                     primer, sequence
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Query Match
Best Local Similarity
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primer_bind
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17; Conserv
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1 (bases 1 to 20)

Venta, P.J., Brouillette, J.A., Yuzbasiyan-Gurkan, V. and Brewer, G. Gene-specific universal mammalian sequence-tagged sites: application to the canine genome

Unpublished (1996)

Original source text: Canis familiaris DNA.

Gene-specific universal mammalian sequence-tagged site for KIT1.

Primer for the 5' end is in exon 18. Human product is 650 bp.

Canine product is 650 bp. PCR conditions: 1 min, 94 C, 2 min, 57 (2 min, 57)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Original source text: Canis familiaris DNA.

Gene-specific universal mammalian sequence-tagged site for HOX7.

Primer for the 3' end is in exon 2. Human product is 151 bp. Canine product is 151 bp. PCR conditions: 1 min, 94 C, 2 min, 57 C, 3 min, 72 C, 35 cycles.
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STS; Homeo
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STS; PCR identification;
tagged_site; universal materials
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Venta, P.J., Brouillette, J.A., Yuzbasiyan-Gurkan, V.
Gene-specific universal mammalian sequence-tagged
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                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Canis familiaris
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sequence tagged
L77376
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Mammalia; Eutheria; Carnivora;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Canis familiaris (dog)
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                                                                                       complement(1. .20)
/note="PCR primer binding site"
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/mol type="genomic DNA"
/db xref="taxon:9615"
1. .20
                                                                                                                                                              /organism="Canis familiaris"
/mol_type="genomic DNA"
                                                      /evidence=experimental
5 c 7 g
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evidence=experimental
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Pred. No. 1.1e+02;
   Score 15.2; DB 1;
Pred. No. 1.1e+02;
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                    Length 20;
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sites:
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Canis.
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AR133382
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AR133381
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Best Local Similarity
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Stinchcomb, D.T., Jarvis, T. and McSwiggen, J.
Nucleic acid based inhibition of CD40
Patent: US 6194150-A 1805 27-FEB-2001;
Unclassified
                                      AR133382.1
                                                                                                                                                                                                                                1 (bases 1 to 15)
Stinchcomb,D.T., Jarvis,T. and McSwigg
Nucleic acid based inhibition of CDM
Patent: US 6194150-A 1806 27-FEB-2001;
                                                                                                                                                                                                                                                                                Unknown
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Sequence 42 from patent US
AR106794
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AX553634
AX553634.1 GI:25897632
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                                                                          Antisense inhibition of G-alpha-16 expression Patent: US 6107091-A 42 22-AUG-2000; Location/Qualifiers
                                                                                                           1 (bases 1 to 18)
Cowsert, L.M.
                                                                                                                                                      Unknown.
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Homo sapiens
                                                                                                                                  Unclassified.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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AR160861/c
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AR160861
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Ribozyme therapy for the treatment of
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Mammalia; Eutheria; Primates;
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Bennett, C.Frank. and Cowsert, L.M.
Antisense modulation of Her-4 expression
Patent: US 6255111-A 65 03-UUL-2001;
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Unclassified.
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/db xref="taxon:9606"
/note="Cdc25 hs ribozyme binding
5 c 2 g 9 t
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        1 (bases 1 to 17)
Donahoe, P.K., Gustafson, M. and He, W.W.
DNA encoding a receptor for Mullerian inhibitory substance, and corresponding vectors, cells, probes, and recombinant me Patent: US 5547854-A 10 20-AUG-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      l Similarity
16; Conservat
                                                                                                                                             Sequence 10 from patent I25016
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Donahoe, P.K., Gustafson, M., He, W.-W. and
Nucleic acids encoding a TGF..beta. type
Patent: US 5538892-A 10 23-JUL-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unknown
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Homo sapiens
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Mammalia; Eutheria; Primates;
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llarity 82.4%;
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/mol type="genomic DNA"
/mol type="genomic DNA"
/db_xref="taxon:9606"
/note="Cdc25 hs ribozyme binding
/note="Cdc25 hs rg 10 t
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                                                                                                                                                                     Robbins,J.M. and Tritz,R.
Ribozyme therapy for the treatment of
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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/organism="unknown"
a 2 c 4 g
                                               /note="IL-1 beta ribozyme 3 c 5 g 6
                                                                      /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/mol_type="genomic DNA"
/db_xref="taxon:32630"
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CE 1 (bases 1 to 16)

RS Matsutani,T. and Naito,K.

Agent for retarding the conversion of hormone-dependent cancer into hormone-independent cancer

AL Patent: JP 2000178202-A 6 27-JUN-2000;
TAKEDA CHEMICAL INDUSTRIES LTD

OS Artificial Sequence
PN JP 2000178202-A/6
PD 27-JUN-2000
PF 07-OCT-1999 JP 1999286856
PF 07-OCT-1999 JP 1999286856
PR

TOSHIYA MATSUTANI, KENICHIRO NAITO
PC A61K38/04,A61K38/22,A61K45/00,A61P13/08,A61P35/00//C07K7/23 CC
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Karn, J., Gait, M. John., Heaphy, S. and Dingwall, C. RNA oligonucleotides that bind HIV tat protein Patent: US 5821046-A 17 13-OCT-1998;
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Sequence 17 from patent
AR048076
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BD002055.1 GI:18628795
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/mol type="genomic DNA"
/db_xref="taxon:32630" 2 t
                                                             /organism="unknown"
4 c 5 g
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                         1.0%;
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Karn, J., Gait, M.J., Heaphy, S. and Dingwall, C.
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Unclassified.
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1 (bases 1 to 17)
1 (bases 1 to 17)
Ratn,J., Gait,M.John., Heaphy,S. and RNA oligonucleotides that bind HIV to Patent: US 5821046-A 20 13-OCT-1998;
1. .17
Unclassified.
1 (bases 1 to 17)
                      Unknown.
                                 Unknown
                                                                                        AR108982
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Karn, Gait, M.J., Heaphy, S. and Dingwall, C. Viral (HIV) growth inhibition
Patent: US 6114109-A 17 05-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                           Unknown.
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Pred. No. 1.2e+02;
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Patent: US 6114109-A 20 05-SEP-2000;
Location/Qualifiers
                                                                                                                 Karn,J., Gait,M.John., Heaphy,S. and Dingwall,C. RNA oligonucleotides that bind HIV tat protein Patent: US 5821046-A 23 13-OCT-1998; Location/Qualifiers
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Pavco,P., McSwiggen,J., Stinchcomb,D. and Escobedo,J.
Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
Patent: US 6346398-A 5715 12-FEB-2002;
                                                                                                                                                                                       Unknown
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Pred. No. 1.2e+02;
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Pred. No. 1.3e+02;
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1 (bases 1 to 18)

Karn, J., Gait, M.J., Heaphy, S. and Diviral (HIV) growth inhibition

Patent: US 6114109-A 23 05-SEP-2000;
         1 (bases 1 to 18)
Anderson, S. and Banta, S.
Design and production of mutant 2,5-diketo-D-gluconic reductase enzymes with altered cofactor dependency Patent: US 6423518-A 5 23-JUL-2002;
                                                                         Unknown
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Cowsert, L.M.
Antisense modulation of G-alpha-11 expression
Patent: US 5951455-A 30 14-SEP-1999;
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Patent: WO 0157206-A 1035 09-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Fattaey,
Location/Qualifiers
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Patent: WO 0157206-A 1034 09-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Fattaey, Ali R.
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                                                                                                                                                                                                                                                                                                                                                                                             Fattaey, A.R., Jarvis, T., Mcswiggen, J., Booher, R.N. and Holman, P.S. Method and reagent for the inhibition of checkpoint kinase-1 (chk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AX227662.1 GI:15556803
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/mol_type="mRNA"
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Method and reagent for the
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/mol type="mRNA"
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/mol type="mRNA"
/db_xref="taxon:32630"
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1 (bases 1 to 17)
                                 1 (bases 1 to 17)
Pavco,P., McSwiggen,J., Stinchcomb,D. and Escobedo,J.
Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
Patent: US 6346398-A 4205 12-FEB-2002;
Location/Qualifiers
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Herrmann,B. and Kispert,A.
NUCLEIC ACIDS INVOLVED IN THE RESPONDER
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A95626
                                                                                                                                                                     Sequence 4205 from patent AR188717
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HERRMANN BERNHARD (DE); MAX PLANCK GESELLSCHAFT
Location/Qualifiers
                                                                                                                       Unknown
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WO 9202228-A 17 20-FEB-1992;
Location/Qualifiers
/organism="unkhown"
3 c 5 g
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/mol_type="genomic DNA"
/db_xref="taxon:32644"
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/mol_type="mRNA"
/db_xref="taxon:32630"
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Pavco, P., McSwiggen, J.; Stinchcomb, D. and Escobedo, J. Method and reagent for the treatment of diseases or crelated to levels of vascular endothelial growth fact Patent: US 6346398-A 4206 12-FEB-2002;
                                                                                                                                                                                                1 (bases 1 to 17)
Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
Patent: US 6346398-A 4242 12-FEB-2002;
Location/Qualifiers
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Sequence
AR190226
                                          1 (bases 1 to 17)
Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J. Method and reagent for the treatment of diseases or related to levels of vascular endothelial growth fact Patent: US 6346398-A 5779 12-FEB-2002;
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Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobed Method and reagent for the treatment of diseases related to levels of vascular endothelial growth Patent: US 6346398-A 5714 12-FEB-2002;
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Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
Patent: US 6346398-A 4357 12-FEB-2002;
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Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
Patent: US 6346398-A 5780 12-FEB-2002;
Location/Qualifiers
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Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
Patent: US 6346398-A 5817 12-FEB-2002;
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                                                              1 (bases 1 to 17)
Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
Patent: US 6346398-A 7685 12-FEB-2002;
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Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor Patent: US 6346398-A 7674 12-FEB-2002;
Location/Qualifiers
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Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
Patent: US 6346398, A 7684 12-FEB-2002;
                                                                                                                                                                                                              Sequence 7685 from patent AR192197
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1 (bases 1 to 17)

Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor Patent: US 6346398-A 7686 12-FEB-2002;

Patent: US 6346398-A 7686 12-FEB-2002;

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Pavco,P., McSwiggen,J., Stinchcomb,D. and Escobedo,J.
Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor Patent: US 6346398-A 7687 12-FEB-2002;
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Human immunodeficiency virus
Viruses; Retroid viruses; Retroviridae;
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Sequence 1 from Patent WO9964625.
AX008727
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15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Beigelman, L., Burgin, A., Beaudry, A., Karpeisky, Amatulic-Adamic, J., Sweedler, D. and Zinnen, S. Synthetic ribonucleic acids with RNAse activity Patent: US 6528640-A 778 04-MAR-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 (bases 1 to 17)
Beigelman, L., Burgin, A.,
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Beigelman, L. Burgin, A., Beaudry, A., Karpeisky, P.
Beigelman, C., Sweedler, D. and Zinnen, S.
Synthetic ribonucleic acids with RNAse activity
Patent: US 6528640-A 385 04-MAR-2003;
1. 17
                                                            Methods and kits for discovery of rna-binding
Patent: WO 9964625-A 1 16-DEC-1999;
RIBOTARGETS LIMITED (GB)
Location/Qualifiers
                                                                                                                Prescott, C.D. and Karn, J.
                                                                                                                                                                                                       AX008727.1 GI:9996224
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                                                                                                                                        entivirus group.
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5 c 5 g
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3 c 6 g
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                                      organism="Human immunodeficiency virus"
ol_type="genomic RNA
o_xref="taxon:12721"
4 c 5 g
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Pred. No. 1.4e+02;
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Pred. No. 1.4e+02;
0; Mismatches 2;
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ler,D. and Zinnen,S.
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ORGANISM
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AX218180
LOCUS
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ACCESSION
VERSION
KEYWORDS
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AX215402/c
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                                                                                                           nogo gene expression
Patent: WO 0159103-A 3622 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Bla
McSwiggen, James (US); Chowrira, Bharat
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 84
AX215402
AX215402.1
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15; Conserv
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synthetic construct
artificial sequences.
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15; Conserv
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AX218180
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                                                      /organism="synthetic construct"
/mol_type="mmRN;
/mol_type="mmRn;
/db xref="texon:32630"
/note="Nucleic Acid"
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8 c 7 g
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Pred. No. 1.4e+02;
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KEYWORDS
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ORGANISM
RESULT 113
AX325661
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Sequence 430 from Patent
AX227058
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RIBOZYME PHARMACEUTICALS, INC. (US); Blatt,
MCSwiggen, James (US); Chowrira, Bharat M. (
Location/Qualifiers
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/mol type="mRNA"
/db_xref="taxon:32630"
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/mol_type="mRNA"
/db_xref="taxon:32630"
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Pred. No. 1.4e+02;
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REFERENCE
AUTHORS
TITLE
                       RESULT 115
AX498838
LOCUS
DEFINITION
ACCESSION
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KEYWORDS
SOURCE
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AX325662/c
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l Similarity 88.2%;
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AX498838
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AX325662
AX325662.1 GI:18096421
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Solanum tuberosum
          AX498838.1 GI:23381120
                                                      AX498838
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                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Asteridae; lamiids; Solanales; Solanaceae; Solanum.
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Solanum tuberosum
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/mol_type="genomic DNA"
/db_xref="taxon;4113"
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/mol type="genomic DNA"
/db_xref="taxon:4113"
/db_xef="taxon:4g" 8 t
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Human posh-like protein 1
Patent: EP 1239051-A 122 11-SEP-2002;
Aeomica, Inc. (US)
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Sequence 122 from Patent
AX530613
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                                  Shannon, M.
                                                                            Homo sapiens (human)
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Mammalia; Eutheria;
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Similarity 88.2%;
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/mol_type="genomic DNA"
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Primates;
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15; Conserv
                                                                                                                    Telerman,A., Amson,R. and Tuijnder,M. Sequences involved in phenomena of tumour reversion, apoptosis and/or resistance to
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Homo sapiens
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Homo sapiens
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                               Patent: WO 03004526-A 1802 16-JAN-2003,
Molecular Engines Laboratories (FR)
Location/Qualifiers
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Patent: EP 1239051-A 123 11-SEP-2002;
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Sequence 123 from Patent
AX530614
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/organism="Homo sapiens"
/mol_type="genomic DNA"
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2532 GGTAGAAGACTTGGATC 2548
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l Similarity 88.2%;
15; Conservative
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Sequence 3780 from Patent
AX726093
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                                                                                                                                                                  Patent: WO 03025176-A 3780 27-MAR-2003;
Molecular Engines Laboratories (FR)
Location/Qualifiers
                                                                                                                                                                                                            medicines
                                                                                                                                                                                                                      Telerman,A., Amson,R. and Tuijnder,M.
Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or virus resistance and their use
                                                                                                                                                                                                                                                                                                       Mus musculus
                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                               /organism="Mus musculus"
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/db_xref="taxon:10090"
5 c 3 g
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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Pred. No. 1.4e+02;
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                                          Score 13.8; DB 1;
Pred. No. 1.4e+02;
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AX729373/c
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Sequence 4977 from Patent
AX733343
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Molecular Engines Laboratories (FR)
Location/Qualifiers
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Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or virus resistance and their use as
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Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or virus resistance and their use as
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                  /organism="Homo sapiens"
/mol_type="genomic DNA"
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Pred. No. 1.4e+02;
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RESULT 124 AX744528

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AUTHORS
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TITLE
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 Query Match
Best Local Similarity
Matches 15; Conserv
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C12N15/09, A01K67/027, A61K31/7088, A61K38/45, A61K39/395, A61K48/ PC
00, A61P15/16,
PC C07K16/40, C12N1/15, C12N1/19, C12N1/21, C12N5/10, C12N9/12 PC
C12P21/08, C12N15/00, A61K37/52, C12N5/00
CC Description of A-1.5.
                                                                                                                                                                                                                                                                                             Patent: JP 2001523449-A 19 27-NOV-2001;

MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN EV
OS Artificial Sequence
PN JP 2001523449-A/19
PD 27-NOV-2001
PF 18-NOV-1998 JP 2000521181
PF 18-NOV-1997 EP 97120190.0,02-MAR-1998 EP 98103596 7
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A human G protein coupled receptor Patent: WO 03031621-A 493 17-APR-2003; Amersham Biosciences (SV) Corp. (US)
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1 (bases 1 to 17)
Herrmann,B., Koschorz,B.
Nucleic acids involved ir
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synthetic construct
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Mammalia; Eutheria; Primates;
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/organism='Artificial
Location/Qualifiers
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                                                         /organism="synthetic construct"
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/db_xref="taxon:32630"
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Score 13.8; DB 1;
Pred. No. 1.4e+02;
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RESULT 128
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Patent: WO 9529259-A 4 02-NOV-1995;
STICHTING CENTRAPA LAB (NL)
Other publication AU 2319495 951116.
Location/Qualifiers
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Sequence 4 from Patent WO9529259
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Voorberg, J.J., Van, M.J. and Mertens,
METHOD AND MEANS FOR DETECTING AND T
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1 (bases 1 to 18)
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335 from Patent WO9833904.
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/mol_type="genomic_DNA"
/db_xref="taxon:32644"
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/mol_type="mRNA"
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A88187.1
unclassified.
1 (Dases 1 to 18)
Min,J.W. and Fiers,W.
Min,J.W. and Fiers,W.
NEW IMMUNOPROTECTIVE INFLUENZA ANTIGEN AND ITS USE IN VACCINATION
Patent: WO 9907839-A 48 18-FEB-1999;
VLAAMS INTERUNIV INST BIOTECH (BE); MIN JOU WILLY (BE)
                                                                                                                                                                                                                                                                                                                                                                                                              1 (bases 1 to 18)
Brysch, W.D. and Schlingensiepen, K.D.
An antisense oligonucleotide preparation method Patent: EP 0856579-A 335 05-AUG-1998;
BIOGNOSTIK GES (DE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 (bases 1 to 18)
Brysch, W. and Schlingensiepen, K.
Brysch, W. and Schlingensiepen, K.
ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
Patent: WO 9833904-A 335 06-AUG-1998;
BIOGNOSTIK GES (DB); BRYSCH WOLFGANG (DE)
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/mol_type="genomic DNA"
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Hall,F.L., Nimni,M.E., Tuan,T.-L., Wu,L. and Cheung,D.T.
Hall,F.L., Nimni,M.E., Tuan,T.-L., Wu,L. and Cheung,D.T.
Artificial skin prepared from coclagen matrix containing
transforming growth factor-beta. having a collagen bind.
Patent: US 5800811-A 21 01-SEP-1998;
Location/Qualifiers
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AR036682
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Karn, J., Gait, M.John., Heaphy, S. and Dingwall, C.
RNA oligonucleotides that bind HIV tat protein
Patent: US 5821046-A 13 13-CCT-1998;
Location/Qualifiers
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Sequence 13 from patent US
AR048072
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AR077364
1 (bases 1 to 18)
Voorberg, J.Jacobus., van Mourik, J.Aart. and Mertens, K. Method and means for detecting and treating disorders coagulation cascade
Patent: US 6083905-A 4 04-JUL-2000;
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Monia,B.P. and Coweert,L.M.
Antisense inhibition of EGR-1 expression
Patent: US 6008048-A 17 28-DEC-1999;
Location/Qualifiers
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Sequence 17 from patent US
AR096633
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Griffiths, A. David., Williams, S. Cameron., Watt
Nissim, A., Winter, G. Paul., Johnson, K. Stuart.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Methods for producing recombinant vectors Patent: US 5962255-A 79 05-OCT-1999;
                                                                       Unknown.
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AR106793
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Karn,J., Gait,M.J., Heaphy,S. and Dingwall,C. Viral (HIV) growth inhibition

Patent: US 6114109-A 13 65-SBP-2000;
                                                                                                                                                                                                                        Unknown
                                                                                                                                                                                                                                                                Sequence 13
AR108975
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Cowsert, L.M.
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Griffiths,A.D., Williams,S.C., Waterhouse,P.M., Nissim,A. Winter,G.P., Johnson,K.S. and Smith,A.J.H.
Methods for producing members of specific binding pairs
Patent: US 6492160-A 79 10-DEC-2002;
                                                                                                                                                                                                                                                                                                                                                                                                            1 (bases 1 to 18)
Nimni,M.E., Hall,F.L., Wu,L., Han,B. and Shors,E.C.
Bone morphogenetic proteins and their use in bone gratent: US 6352972-A 21 05-MAR-2002;
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AR117984
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Sequence 79 from patent US 6492160.
AR265427
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Sequence 21 from patent US
AR198571
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Sato,S., Higashikuni,N., Kudo,T. and Kondo,M.
DNAs encoding new fusion proteins and processes for preparing useful polypeptides through expression of the DNAs patent: US 6506595-A 9 14-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNAs encoding new fusion proteins and processes for useful polypeptides through expression of the DNAs Patent: US 6506595-A 8 14-JAN-2003;
Location/Qualifiers
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Sequence 19 from Patent WO0104358.
AX076043
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15; Conservat
Shimkets,R.A. and Fernandes,E. Nucleic acids and secreted polypeptides encoded thereby Patent: WO 0110902-A 40 15-FEB-2001; Curagen Corporation (US)
                                                                                                                                                                                                                                                                                                                                                                                                             Stuyver,L., Maertens,G. and van Geyt,C. Detection of anti-hepatitis b drug resistance Patent: WO 0104358-A 19 18-JAN-2001; INNOGENETICS N.V. (BE)
                                                                               synthetic construct synthetic construct
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Hepatitis B virus
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Methods and kits for discovery of r
Patent: WO 9964625-A 3 16-DEC-1999;
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Human immunodeficiency virus
Viruses; Retroid viruses; Retroviridae;
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Location/Qualifiers
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/mol_type="genomic RNA"
/db_xref="taxon:12721"
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/mol Lype="genomic DNA"
/db_xref="taxon:10407"
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Sequence 2 from Patent WO02095071.
AX708786
                                                                                       Means and methods for identifying genes and proteins involved
the prevention and/or repair of a replication error
Patent: WO 02095071-A 2 28-NOV-2002;
Koninklijke Nederlandse Akademie van Wetenschappen (NL)
                                                                                                                                                                                synthetic construct synthetic construct
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Nucleic acids and secreted polypeptides
Patent: WO 0110902-A 43 15-FEB-2001;
Curagen Corporation (US)
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synthetic construct
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Sequence 43 from Patent W00110902.
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/note="Primer RO3C_C"
3.c 8 g
                         /organism="synthetic co
/mol_type="genomic DNA"
/db_xref="taxon:32630"
                                                                                                                                                                                                                                                                                                                                                                                                                                            /mol_type="genomic DNA"
/db_xref="taxon:32630"
/note="PCR PRIMER"
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/mol_type="genomic DNA
/db_xref="taxon:32630"
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88.2%;
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Pred. No. 1.5e+02;
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Pred. No. 1.5e+02
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REFERENCE
AUTHORS
TITLE
                                                                                    AUTHORS
Schlingensiepen, K.H. and Brysch, W.
TITLE
An antisense oligomucleotide preparation method
Patent: JP 2001511000-A 335 07-AUG-2001;
BIOGNOSTIK GESELLSCHAFT FUR BIOMOLEKULARE DIAGNOSTIK MBH
OS Unknown
PN JP 2001511000-A/335
PD 07-AUG-2001
PP 30-JAN-1998 JP 1998532533
PR 31-JAN-1998 JP 1998532533
PR 31-JAN-1998 JP 1998532533
PR 31-JAN-1998 JP 397101531
PG C12N15/11 C^C
CC An ~~
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BD065700/c
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AX713201/c
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Patent: WO 03118837-A 87 06-MAR-2003;
Adnagen AG (DE)
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Sequence 87 from Patent WO03018837.
AX713201
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An antisense oligonucleotide pre
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synthetic construct
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /mol_type="genomic DNA"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note="Oligonukleotid"
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Pred. No. 1.5e+02;
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Martificial sequences.

Ito, Y., Suzuki, N., Nishi, K., Kizawa, H., Harada, M. and Ogi, K.

Novel insulin/IGF/relaxin family polypeptide and its DNA

Patent: WO 0181562-A, 10 01-NOV-2001;

PATENDA CHEMICAL INDUSTRIES LTD, YASUAKI ITO, NOBUHIRO SUZUKI,

TAKEDA CHEMICAL INDUSTRIES LTD, YASUAKI ITO, NOBUHIRO OGI

TAKZUNORI NISHI, HIDEKI KIZAWA, MASATAKA HARADA, KAZUHIRO OGI

OS Artificial Sequence

WO 0181562-A/10

PD 01-NOV-2001 WO 2001JP003399

PP 20-APR-2001 WO 2001JP003399
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Kit and method i
BD104044
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                                                                                                                                                                                                                                                                                                                                                                                                                       PI KAZUHIRO OGI
PC C12N15/09,C07K14/65,C07K16/26,C12N1/15,C12N1/19,C12N1/21 PC
PC C12N5/00,C12Q1/68,
PC C12P21/02,C12P21/08,A61K38/17,A61K38/28,A61K38/30,A61K39/395
PC A61K45/00,
PC A61F43/00,A61F19/00,A61F19/00,A61F5/00,A61F25/00, PC
A61F43/00,A61F1/00,A61F17/00,G01N33/50,G01N33/15 CC Primer
PC A61F1/16,A61F11/00,A61F17/00,G01N33/50,G01N33/15 CC Primer
PH Key
PT Source 1.18
Corganism='Artificial Sequence'.
             synthetic construct
synthetic construct
artificial sequences
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PR 21-APR-2000 JP 00P 126340,03-JUL-2000 JP 00P 205587
10-AUG-2000 JP 00P 247962,22-DEC-2000 JP 00P 395050 PI
YASUAKI ITO,NOBUHIRO SUZUKI,KAZUNORI NISHI,HIDEKI KIZAWA, PI
MASATAKA HARADA,
                                                            BD104044.1 GI:22649618
WO 0192572-A/148.
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WO 0181562-A/10.
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Location/Qualifiers
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E39157/c
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PI SHOGO
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CC Descri
FH Key
FT Source
                                                                                                                                                                                                                                                                                     artificial sequences.

1 (bases 1 to 18)

Seiji,S., Masahiko,H., Toshiyuki,K. and Masaaki,K.

Seiji,S., Masahiko,H., Toshiyuki,K. and Masaaki,K.

DNA encoding novel fused protein and process for producing useful protein mediating the expression thereof

Patent: JP 199341991-A 3 14-DEC-1999;

ITO HAM KK,TUZO UDAKA

OS Artificial Sequence

PN JP 199341991-A/3
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synthetic construct
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Patent: WO 0192572-A 148 06-DEC-2001;
NISSHINBO INDUSTRIES INC. SYSTEM RESEARCH INC.HIDETOSHI INOKO, TI
KAGIYA, TATSUO ICHIHARA,YOSHIYUKI MATSUMURA,SHOGO MORIYA,MICHIO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Inoko, H., Kagiya, T., Ichihara, T., Matsumura, Y., Moriya, S. and
                                                                                                 source
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                                                                                                                                                                                                        SEIJI SATO, MASAHIKO HIGASHIKUJI, TOSHIYUKI KUDO, MASAAKI KONDO C12N15/09, C12N1/21, C12P21/02, C12P21/02//C07K14/605, C07K14/62,
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C12Q1/68, C12M1/00, C12N15/09, G01N33/53
Description of Artificial Sequence: capture
Key Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-JUN-2001 WO 2001JP004662
01-JUN-2000 JP 00P 164798
HIDETOSHI INOKO,TAEKO KAGIYA,TATSUO ICHIHARA,YOSHIYUKI
                                                                                                                                              C12N15/00, (C12N15/00, C12R1:08)
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06-DEC-2001
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Location/Qualifiers
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/mol type="genomic DNA"
/db_xref="taxon:32630"
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/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"
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protein mediating the expression thereof

Patent: JP 199341991-A 4 14-DEC-1999;

ITO HAM KK, JUZO UDAKA
OS Artificial Sequence
PN JP 199341991-A/4
PD 14-DEC-1999
PF 30-MAR-1999 JP 1999089488
PR SEIJI SATO, MASAHIKO HIGASHIKUJI, TOSHIYUKI KUDO, PC C12N15/09, C12N1/21, C12P21/02, C12P21/02/C07K14/PC C07K14/655,
PC C12R1:08), CC12N15/09, C12R1:08), CC C12R1:08), CC C12R1:08), CC C12R1:08), CC C12R1:08)
PR CLERI:09, CT2N15/00, C12R1:08)
PR CLERI:09, CT2N15/00, C12R1:08)
PR C12R1:08, CT2N15/00, C12R1:08)
PR Key Location/Qualifiers
FT source /organism='Artificial Sequence'
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15; Conserv
1 (bases 1 to 18)
Sonenberg,N., Katze,M.G., Roy,S., Koromilas,A.E. and Barber,G.H.
Anti-tumor agent assay using PKR
Patent: US 5670330-A 19 23-SEP-1997;
                                                                                                                                     Sequence 19 from patent 166360
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1 (bases 1 to 18)
Seiji,S., Masahiko,H.,
                                                          Unclassified
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Pred. No. 1.5e+02
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195705
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Johnson, K. Stuart., Winter, G. Paul., Griffiths, A. David.,
Smith, A. John. Hammond. and Waterhouse, P. Michael.
Methods for producing members of specific binding pair:
Patent: US 5733743-A 33 31-MAR-1998;
                                                                                                                                                                        1 (bases 1 to 15)
Vogelstein, B., Kinzler, K.W., Zhang, L. and
Gene expression profiles in normal and car
Patent: US 6333152-A 233 25-DEC-2001;
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Sequence 233 from patent
AR180165
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Pred. No. 1.5e+02;
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                                                                       BD065687 16
An antisense oligonucleotide
BD065687 GI:22611290
JP 2001511000-A/322.
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Brysch,W.D. and Schlingensiepen,K.D.
An antisense oligonucleotide preparation
Patent: EP 0856579-A 322 05-AUG-1998;
BIOGNOSTIK GES (DE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 (bases 1 to 16)
Brysch, W. and Schlingensiepen, K.
ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
Patent: WO 9833904-A 322 06-AUG-1998;
BIOGNOSTIK GES (DE); BRYSCH WOLFGANG (DE)
1 (bases 1 to 16)
Schlingensiepen, K.H. and Brysch, W.
An antisense oligonucleotide preparation method
                                       unclassified.
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/mol_type="genomic DNA"
/db_xref="taxon:32644"
7 c 2 g
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/db_xref="taxon:32644"
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BIOGNOSTIK GESELLSCHAFT FUR BIOMOLEKULARE DIAGNOSTIK MBH
OS UNKNOWN
PN JP 2001511000-A/322
PD 07-AUG-2001
PF 30-JAN-1998 JP 1998532533
PF 31-JAN-1997 EP 97101531.8
PR 31-JAN-1997 EP 97101531.8
PR 31-JAN-1997 EP 97101531/8
PR 31-JAN-1997
                                                                                                    AR085293
Sequence 5 from patent US
AR085293
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Sequence 10 from Patent WO9604387
A48870
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llarity 93.3%;
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/mol_type="genomic DNA"
/db_xref="taxon:32644"
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/mol_type="genomic DNA"
/db_xref="taxon:32644"
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Location/Qualifiers
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Pred. No. 1.5e+02;
0; Mismatches 1;
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Pred. No. 1.6e+02;
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Kornbluth, J.
Natural killer lytic a
Patent: US 5981705-A 5
                                                                                     1 (bases 1 to 17)
Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or covered to levels of vascular endothelial growth facts
Patent: US 6346398-A 4355 12-FEB-2002;
                                                                                                                                                     Unknown
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Sequence 4355 from patent
AR188867
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DNA sequences coding for the human proteins the interleukin-lbeta converting enzyme Patent: US 6180386-A 10 30-JAN-2001;
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AR127158
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           synthetic construct synthetic construct
                                                            Sequence 2375 from Patent AX216933
                                                                                                                                                                                                                                                                                    1 (bases 1 to 17)
Beigelman, L., Burgin, A., Beaudry, A., Karpeisky, A.,
Matulic-Adamic, J., Sweedler, D. and Zinnen, S.
Synthetic ribonucleic acids with RNAse activity
Patent: US 6528640-A 649 04-MAR-2003;
Location/Qualifiers
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AR286277
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Pavco, P., McSwiggen,
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artificial sequences
                                                 AX216933.1 GI:15526994
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                                        Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Sequence 96 from Patent W00162911.
AX272527
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Patent: WO 0159103-A 2376 16-AUG-2001;
RIBOZYME HARMAGEUTICALS, INC. (US); Blatt,
McSwiggen, James (US); Chowrira, Bharat M.
Location/Qualifiers
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synthetic construct
artificial sequences.
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Patent: WO 0159103-A 2375 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt,
McSwiggen, James (US); Chowrira, Bharat M.
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\operatorname{Ellis}_{\mathcal{J}}.H. Method and reagent for the inhibition of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Blatt,L., Mcswiggen,J. and Chowrira,B.M. Method and reagent for the modulation and
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                            Jarvis,T., von
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/db_xref="taxon:32630"
/note="Nucleic Acid"
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/mol_type="mRNA"
/db_xref="taxon:32630"
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                            Mcswiggen, J.A., Hamblin, P.A.
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                                                                                                  Telerman,A., Amson,R. and Tuijnder,M.
Sequences involved in phenomena of tumour suppression, reversion, apoptosis and/or resistance to viruses and a
                                                                                                                                                                                                                                                       Sequence 1944 from Patent AX673499
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                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Method and reagent for the inhibition of grid Patent: WO 0162911-A 284 30-AUG-2001; RIBOZYME PHARMACEUTICALS, INC. (US); GLAXO G
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                                                                                          medicines
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                        Molecular Engines Laboratories
                                                                         Patent: WO 03004526-A 1944 16-JAN-2003;
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/mol_type="mRNA"
/db_xref="taxon:9606"
6 c 3 g
/organism="Homo sapiens"
/mol_type="genomic DNA"
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Pred. No. 1.6e+02;
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Pred. No. 1.6e+02;
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TITLE
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Matches 14; Conservative
Query Match
Best Local Similarity
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Best Local Similarity
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AX673500
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                                                                                                                                                                                                                                                                                                                  Sequence 2866 from Patent WO03004526. 
AX674421
                                                                                                                              Patent: WO 03004526-A 2866 16-JAN-2003;
Molecular Engines Laboratories (FR)
                                                                                                                                                          medicines
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                          Homo sapiens
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Location/Qualifiers
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                         /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/mol_type="genomic DNA"
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Score 13.4; DB 1;
Pred. No. 1.6e+02;
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Pred. No. 1.6e+02;
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Location/Qualifiers
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                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                             Mus musculus (house mouse)
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mus musculus (house mouse)
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Similarity 93.3%;
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 TCACTCTGAATGGTT 17
                         TCACTCTGCATGGTT 1343
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/mol_type="genomic DNA"
/db_xref="taxon:10090"
2 c 3 g
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                                                                                                                   /mol_type="genomic DNA"
/db_xref="taxon:10090"
                                                                                                                                                 organism="Mus musculus"
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Pred. No. 1.6e+02;
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Pred. No. 1.6e+02;
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AX732843
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KEYWORDS
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DEFINITION
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                                                          Query Match 1.0%;
Best Local Similarity 93.3%;
Matches 14; Conservative
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Sequence
AX732816
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                                                                                                                                                                                                Molecular Engines Laboratories (FR)
Location/Qualifiers
                                                                                                                                                                                                                               Patent: WO 03025175-A 4477 27-MAR-2003;
                                                                                                                                                                                                                                              medicines
                                                                                                                                                                                                                                                         Telerman,A., Amson,R. and Tuijnder,M. Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or virus resistance and their use as
                                                                                                                                                                                                                                                                                                                                                                                                 AX732843.1 GI:30512186
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Similarity 93.3%;
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GATCGGGTGTCAGAG 15
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4450 from Patent WO03025175.
                                                                                                                     /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
2 c 8 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
3 c 6 g
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Pred. No. 1.6e+02;
0; Mismatches 1;
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Pred. No. 1.6e+02;
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RESULT 177 AX739491 LOCUS

AX739491

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164698
164698.1
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Draper,K.G., Pavco,P., McSwiggen,J., Gustofson,J. and
Stinchcomb,D.T.
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I37420
        Unclassified.

1 (bases 1 to 17)

Kornbluth, J.
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Sequences involved in phenomena of tumour reversion, apoptosis and/or resistance to thereof as medicaments
Patent: WO 0302517-A 5081 27-MAR-2003;
Molecular Engines Laboratories (FR)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 5081 from Patent AX739491
                                                           Unknown.
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Mammalia; Eutheria;
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encoding natural killer lytic associated protein
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
3 c 2 g 1
                                                                                  GI:2481592
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93.3%;
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Primates;
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Pred. No. 1.6e+02;
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Pred. No. 1.6e+02;
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5665588.
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AR119016
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                 1934 GCACACAGGATGG 1946
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AR119016
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Uchida, K., Uchida, T., Tanaka, Y., Matsuda,
Antisense nucleic acid compound targeted
Patent: US 6150092-A 142 21-NOV-2000;
Location/Qualifiers
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14; Conserv
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Draper, K.G., Pavco, P., McSwiggen, J., Gu
Stinchcomb, D.T.
Method of reducing stromelysin RNA via
Patent: US 5731295-A 433 24-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Patent: US 5665588-A 5 09-SEP-1997;
Location/Qualifiers
1. .17
                                                                                                                                                           Unknown.
Unclassified.
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                                               Similarity
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GCACACAGGATGG 14
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3 c 6 g
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8 c 3 g
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RESULT 182

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13; Conserv
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Patent: US 5861294-A 18 19-JAN-1999;
Location/Qualifiers
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1 (bases 1 to 17)
Zwick,M.G., Edington,B.E., McSwiggen,J.A., Merlo,P.Ann.Owens., Guo,L., Skokut,T.A., Young,S.A., Folkerts,O. and Merlo,D.J. Nucleic acid encoding delta-9 desaturase
                                                             Unknown.
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Sequence 748 from
AR196283
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Cowart, M. Daniel.,
                                                                                                                                                                                                                                                                                                                                                                                                   Unknown.
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Sequence 18 from patent US
AR030682
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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/mol_type="mRNA"
/db_xref="taxon:9606"
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Pred. No. 1.8e+02;
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                                                                              Fattaey,A.R., Jarvis,T., Mcswiggen,J., Booher,R.N. and Holman, Method and reagent for the inhibition of checkpoint kinase-1 (1) enzyme Patent: WO 0157206-A 1033 09-AUG-2001; RIBOZYME PHARMACEUTICALS, INC. (US); Fattaey, Ali R. (US) Location/Qualifiers
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Sequence 1806 from Patent
AX216364
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Location/Qualifiers
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Patent: WO 0159103-A 1806 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt,
McSwiggen, James (US); Chowrira, Bharat M.
Location/Qualifiers
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synthetic construct
artificial sequences.
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/mol_type="mRNA"
/db_xref="taxon:32630"
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RESULT 188
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Matches 13; Conservative 0; Mismatches 0;
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Mammalia; Eutheria; Primates;
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Mammalia; Eutheria; Primates;
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/db_xref="taxon:9606"
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
5 c 3 g
                                                                                                                                        organism="Homo sapiens"
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Best Local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 13; Conservative 0; Mismatches 0;
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Sequence 76:
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AX688035.1
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Sequence 766 from Patent
AX688034
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Homo sapiens
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Four human zinc-finger-containing proteins : mdz3, mdz4, mdz7
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/mol_type="genomic DNA"
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                1 (bases 1 to 17)
Draper, K.G., Pavco, P., McSwiggen, J.,
Stinchcomb, D.T.
                                                                                                                                                                                                                                                                                                                                                                                     1 (bases 1 to 17)
Draper K.G., Pavco, P., McSwiggen, J., (Stinchcomb, D.T.
Stromelysin targeted ribozymes
Patent: US 5612215-A 566 18-MAR-1997;
Stromelysin targeted ribozymes
Patent: US 5612215-A 567 18-MAR-1997;
Location/Qualifiers
1. .17
                                                                                                                                                   Sequence 567 from patent I37554
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                                                                                      Unclassified
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larity 100.0%; Pred. No.
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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100.0%; Pred. No. 1.8e+(
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194403
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13; Conserv
                                                                                                                                                                                Unclassified.

1 (bases 1 to 17)

1 (pases 1 to 17)

Stinchcomb,D.T.

Method of reducing stromelysin RNA via ribozymes Patent: US 5731295-A 567, 24-MAR-1998;
                                                                                                                                                                                                                                                 Unknown.
                                                                                                                                                                                                                                                                                                     Sequence
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Stinchcomb,D.T.
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synthetic construct synthetic construct artificial sequences.
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Sequence 46 from Patent WO0179487.
AX284081
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                                                                 Sequence 47 from Patent AX284082
                                                                                                                                                                                                                                                                                                                                                    Patent: WO 0179487-A 46 25-OCT-2001;
Degitz, Klaus Karl (DE) ; Besch, Robert
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                             synthetic construct
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Polydesoxyribonucleotides for inhibiting
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Sequenz:Polydesoxyribonukleotid"
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/mol type="genomic DNA"
/db_xref="taxon:32644"
/note="Uncultured Acidobacterium Sub.Div-1"
5 c 6 g 3 t
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db_xref="taxon:32630"
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                                                     GI:17044792
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Pred. No. 1.8e+02;
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AR024071.1
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A19468.1
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                                  Draper, K.G.
Method and reagent for inhibiting he
Patent: US 5795778-A 21 18-AUG-1998;
Location/Qualifiers
                                                                                                                                                                        AR024071
Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                               MODIFIED SEED STORAGE PROTEINS
Patent: WO 9104270-A 13 04-APR-1991;
Location/Qualifiers
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synthetic construct
artificial sequences.
1 (bases 1 to 17)
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Degitz, Klaus Karl (DE); Besch, Robert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                \begin{array}{lll} \text{Degitz,K.K. and Besch,R.} \\ \text{Polydesoxyribonucleotides for inhibiting the expression of the} \end{array}
                                                                                                              Unknown.
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/db_xref="taxon:32630"
/note="Beschreibung der kunstlichen
Sequenz:Polydesoxyribonukleotid"
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/organism="unknown"
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Pred. No. 1.9e+02;
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Pred. No. 1.8e+02;
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AR039275
AR039275.1 G
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Sequence
AR045623
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Stinchcomb, D.T. and McSwiggen, J.A.
Interleukin-2 receptor gamma-chain ribozymes
Patent: US 5807743-A 123 15-SEP-1998;
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Location/Qualifiers
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Seizinger,B.R., Kley,N.A. and Bianchi,A.B.
NF2 isoforms
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AR036431
Unknown
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LOCUS
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1 (bases 1 to 17)

Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.

C-myb ribozymes having 2'-5'-linked adenylate residues

Patent: US 5817796-A 416 06-OCT-1998;
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                                                                                                            1 (bases 1 to 17)
Stinchcomb,D.T., Draper,K., McSwiggen,J. and Járvis,T.
C-myb ribozymes having 2'-5'-linked adenylate residues
Patent: US 5817796-A 1114 06-OCT-1998;
Location/Qualifiers
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(bases 1 to 17)

(bases 1 to 17)

Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.

C-myb ribozymes having 2'.5'-linked adenylate residues

Patent: US 5817796-A 534 06-OCT-1998;
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Sequence 534 from patent
AR045741
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Pred. No. 1.9e+02;
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Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
C-myb ribozymes having 2'-5'-linked adenylate residues
Patent: US 5817796-A 2423 06-OCT-1998;
1 (bases 1 to 17)
Karn, T., Galt, M.John., Heaphy, S. and Dingwall, C. RNA oligonuclectides that bind HIV tat protein Patent: US 5821046-A 18 13-OCT-1998;
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Sequence 18 from patent US
AR048077
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Stinchcomb, D.T., Draper, K., McSwiggen, J. and Jarvis, T.
Stinchcomb, D.T., Draper, K., McSwiggen, J. and Jarvis, T.
Stinchcomb, D.T., Draper, K., McSwiggen, J. and Jarvis, T.
Stinchcomb, D.T., McSwiggen, J. and Jarvis, T.
Stinchcomb, D.T., 17, McSwiggen, J. and Jarvis, T.
Stinchcomb, D.T., Draper, K., McSwiggen, J. and Jarvis, T.
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Stinchcomb, D.T., Draper, K., McSwiggen, J. and Jarvis, T.
Stinchcomb, D.T., Draper, K., McSwiggen, J. and Jarvis, T.
Stinchcomb, D.T., Draper, K., McSwiggen, J. and Jarvis, T.
Stinchcomb, D.T., Draper, L.
Stinchcomb, D.

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Pred. No. 1.9e+02;
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Pred. No. 1.9e+02;
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AR048078
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Karn,J., Galt,M.John., Heaphy,S. and Dingwall,C.
RNA oligonucleotides that bind HIV tat protein
Patent: US 5821046-A 21 13-OCT-1998;
Location/Qualifiers
1. .17
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AR048081
                                                              Unclassified.

1 (bases 1 to 17)

Rann, J., Gait, M.J., Heaphy, S. and Dingwall, C. Viral (HIV) growth inhibition

Patent: US 6114109-A 19 05-SEP-2000;
                                                                                                                                                            AR108981
Sequence 19 from patent US
AR108981
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Karn,J., Gait,M.J., Heaphy,S. and Dingwall,C.
Viral (HIV) growth inhibition
Patent: US 6114109-A 18 05-SEP-2000;
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Sequence 18 from patent US
AR108980
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Karn, Gait, M. John., Heaphy, S. and Dingwall, C. RNA oligonuclectides that bind HIV tat protein Patent: US 5821046-A 22 13-OCT-1998;

Location/Qualifiers
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Karn, J., Gait, M.J., Heaphy, S. and Di
Viral (HIV) growth inhibition
Patent: US 6114109-A 22 05-SEP-2000;
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Karn, Gait, M.J., Heaphy, S. and Di
Viral (HIV) growth inhibition

Patent: US 6114109-A 21 05-SEP-2000;
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Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor Patent: US 6346398-A 2761 12-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 (bases 1 to 17)
Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor recept
Patent: US 6346398-A 2009 12-FEB-2002;
                                                                                                                                                                                                                                 Sequence 2761 from patent AR187273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 2009 from patent AR186521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 (bases 1 to 17) Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J. Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor recept Patent: US 6346398-A 1992 12-FEB-2002;
                                                                                                                                                                                  Unknown
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Pavco,P., McSwiggen,J., Stinchcomb,D. and Escobedo,J.
Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
Patent: US 6346398-A 5816 12-FEB-2002;
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Paco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J. Method and reagent for the treatment of diseases or crelated to levels of vascular endothelial growth fact Patent: US 6346398-A 4140 12-FEB-2002;
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PavCo, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J. Method and reagent for the treatment of diseases or cond related to levels of vascular endothelial growth factor Patent: US 6346398-A 8106 12-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 (bases 1 to 17)
Pavco,P., McSwiggen,J., Stinchcomb,D. and Escobedo,J.
Method and reagent for the treatment of diseases or conditions
related to levels of vascular endothelial growth factor receptor
Patent: US 6346398-A 7971 12-FEB-2002;
                                                                                                                                    Method and reagent for inhibiting herpes Patent: US 6440719-A 21 27-AUG-2002;
                                                                                                                                                          1 (bases 1 to 17)
Draper, K.G.
                                                                                                                                                                                            Unknown
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Pred. No. 1.9e+02;
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Pred. No. 1.9e+02;
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                                                                                                              RESULT 226
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Sequence 783 from patent US 6528640.
AR286411
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El Solh,N. and Allignet,J.
El Solh,N. and their use for detecting streptogramin A or to streptogramin B and re Patent: US 6506893-A 31 14-JAN-2003;
Blatt,L.,
                                                                   AX215401.1 GI:15525444
                                                                              Sequence 843 from Patent
AX215401
                                                                                                                                                                                                                                                                                                1 (bases 1 to 17)
Beigelman, L. Burgin, A., Beaudry, A., Karpeisky, Matulic-Adamic, J., Sweedler, D. and Zinnen, S. Synthetic ribonucleic acids with RNAse activity Patent: US 6528640-A 783 04-MAR-2003;
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Mcswiggen, J.
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Pred. No. 1.9e+02;
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Pred. No. 1.9e+02;
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  Chowrira, B.M.
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AX216650/c
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Blatt,L., McBwiggen,J. and Chowrira,B.M.
Method and reagent for the modulation and diagnosis
nogo gene expression
Patent: WO 0159103-A 2092 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrenc
McSwiggen, James (US); Chowrira, Bharat M. (US)
                                                                                                                                                              Sequence 2092 from Patent AX216650
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Patent: WO 0159103-A 843 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt,
McSwiggen, James (US); Chowrira, Bharat M. Location/Qualifiers
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Patent: WO 0159103-A 845 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt,
McSwiggen, James (US); Chowrira, Bharat M. (
Location/Qualifiers
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/mol_type="mRNA"
/db_xrefs"teaxon:32630"
/note="Nucleic Acid"
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AX216661/c
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                                                nogo gene expression
Patent: WO 0159103-A 2341 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Bla
McSwiggen, James (US) ; Chowrira, Bharat
Location/Qualifiers
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Sequence 2341 from Patent
AX216899
                                                                                                                 Blatt,L., Mcswiggen,J. and Chowrira,B.M. Method and reagent for the modulation and
                                                                                                                                                                    synthetic construct
synthetic construct
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McSwiggen, James (US); Chowrira,
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/organism="synthetic construct"
/mol_type="mRNA"
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/mol_type="mRNA"
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AX217829
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                                                                                                                    nogo gene expression
Patent: WO 0159103-A 3271 16-AUG-2001;
RIBOZYME PHARWACEUTICALS, INC. (US) ; Blatt,
McSwiggen, James (US) ; Chowrira, Bharat M.
Location/Qualifiers
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AX217829
AX217829.1 GI:15527890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           nogo gene expression
Patent: WO 0159103-A 2926 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt,
MCSwiggen, James (US); Chowrira, Bharat M.
Location/Qualifiers
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AX217484
AX217484.1 GI:15527545
                                                                                                                                                                                        Blatt,L., Mcswiggen,J. and Chowrira,B. Method and reagent for the modulation
                                                                                                                                                                                                                                            synthetic
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Method and reagent for the modulation and diagnosis of cd20 and
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                                                                       organism="synthetic construct"
/mol_type="mRNA"
/db_xref="taxon:32630"
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7 c 0 g
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4 c 4 q
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          Score 12.8; DB 1;
Pred. No. 1.9e+02;
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Pred. No. 1.9e+02;
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AX226704
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Sequence 3295 from Patent W00159103.
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                                                                                                                                                                                              Fattaey,A.R., Jarvis,T., Mcswiggen,J., Booher,R.N. and Holman,P. Method and reagent for the inhibition of checkpoint kinase-1 (checkpoint kinase-1) enzyme
                                                                                                                                                                                                                                                               synthetic construct synthetic construct
                                                                                                                                                                                                                                                                                                                Sequence 76 from Patent AX226704
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/mol type="mRNA"
/db_xref="taxon:32630"
/note="Nucleic Acid"
7 c 1 g 7 t
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/mol type="mRNA"
/db_xref="taxon:32630"
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AX227307/c
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AX264368
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Patent: WO 0157206-A 679 09-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US);
LOCATION/Qualifiers
                                                                                                                                                                                                                                                                                                     1) enzyme
Patent: WO 0157206-A 1087 09-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US) ;
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Sequence 1087 from Patent
AX227715
Homo sapiens
Homo sapiens
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Sequence 1759 from Patent
AX264368
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Similarity 87.5%;
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/mol type="mRNA"
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/db_xref="taxon:32630"
_ 2 c 0 g 9 t
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Pred. No. 1.9e+02;
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Kmiec,E.B., Gamper,H.B. and Rice,M.C.
Targeted chromosomal genomic alterations with modified single stranded oligonucleotides
Patent: WO 0173002-A 3314 04-OCT-2001;
                                                                                                   Homo sapiens (human)
Homo sapiens
                                                                                                                                                          AX265923
Sequence 3314 from Patent
AX265923
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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Targeted chromosomal genomic alterations
stranded oligonucleotides
Patent: WO 0173002-A 1759 04-OCT-2001;
UNIVERSITY OF DELAWARE (US)
Location/Qualifiers
                                                                       Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/mol_type="genomic DNA"
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Pred. No. 1.9e+02;
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AX272714/c
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ACCESSION
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AX265924/c
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                                                                              Method and reagent for the inhibition of grid Patent: WO 0162911-A 283 30-AUG-2001; RIBOZYME PHARMACEUTICALS, INC. (US); GLAXO G
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Eutheria; Primates;
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/db_xref="taxon:9606"
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/mol_type="mRNA"
/db_xref="taxon:9606"
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Sequence 534 from Patent
AX422198
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Sequence 1212 from Patent
AX422876
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/mol_type="mRNA"
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Mammalia; Eutheria;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/mol_type="genomic DNA"
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Human testis expressed
            Zhan, J.
                                    Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                            Homo sapiens
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Mammalia; Eutheria; Primates;
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/mol_type="genomic DNA"
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/mol_type="genomic DNA"
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Sequence 121 from Patent EP1239051.
AX530612
                                                                       Human posh-like protein 1
Patent: EP 1239051-A 124 11-SEP-2002;
Aeomica, Inc. (US)
                                                                                                                                                                                                       Sequence 124 from Patent AX530615
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Patent: EP 1239051-A 121 11-SEP-2002;
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Mammalia; Eutheria; Primates;
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/db_xref="taxon:9606"
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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Sequence 700 from Patent
AX615893
AX615893.1 GI:28446939
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Sequence 552 from Patent
AX672107
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Sequence 589 from Patent
AX648749
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Mammalia; Eutheria; Primates;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/mol_type="genomic DNA"
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Telerman, A., Amson, R. and Tuijnder, M. Sequences involved in phenomena of to
                                           Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                       Homo sapiens
                                                                                                                              AX672663
Sequence 1108 from Patent AX672663
                                                                                                                                                                                                                                                                                                                                                                                                                                Patent: WO 03004526-A 744 16-JAN-2003; Molecular Engines Laboratories (FR)
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Molecular Engines Laboratories (FR)
Location/Qualifiers
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Sequences involved in phenomena of tumour suppression, tumour servicion, apoptosis and/or resistance to viruses and their use as
                                                                                   Homo sapiens (human)
                                                                                                                AX672663.1 GI:29331011
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Similarity 87.5%;
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/mol_type="genomic DNA"
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Pred. No. 1.9e+02
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Pred. No. 1.9e+02
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AX673485
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AX673076
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Molecular Engines Laboratories (FR)
Location/Qualifiers
                                                     Telerman,A., Amson,R. and Tuijnder,M.
Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or resistance to viruses and their use
                                                                                                                                                                                         Sequence 1930 from Patent AX673485 AX673485.1 GI:29331833
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                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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llarity 87.5%;
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                              WO 03004526-A 1930 16-JAN-2003;
Location/Qualifiers
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/db_xref="taxon:9606"
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/mol_type="genomic DNA"
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Pred. No. 1.9e+02;
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Pred. No. 1.9e+02;
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                                                                                           Patent: EP 1281758-A 129 05-FEB-2003;
                                                                                                                                                                                             Homo sapiens
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Location/Qualifiers
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Sequences involved in phenomena of tumour suppression,
Sequences involved and/or resistance to viruses and I
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Sequence 3229 from Patent
AX674784
                                                                                                                                        Shannon, M.,
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Similarity 87.5%;
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/mol_type="genomic DNA"
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/organism="Homo sapiens"
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/mol_type="genomic DNA"
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4 c 3 g
                                                                    location/Qualifiers
                                                                                                                                       Gu, Y. and Nguyen, C.T.
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Pred. No. 1.9e+02;
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Pred. No. 1.9e+02;
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Sequence 130 from Patent EP1281758.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Homo sapiens
Eukaryota, Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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Similarity 87.5%;
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/mol_type="genomic DNA"
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/mol_type="genomic DNA"
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87.5%; Pred. No. 1.9e+02;
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Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
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Patent: EP 1281758-A 341 05-FEB-2003;
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Sequence 320 from Patent EP1281758
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/mol_type="genomic DNA"
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/mol_type="genomic DNA"
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Aeomica, Inc. (US)
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/mol_type="genomic DNA"
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          Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
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Local Similarity 87.5%;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                 Homo sapiens (human)
Homo sapiens
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                               Sequence 5250 from Patent AX692518
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Patent: EP 1281758-A 5249 05-FEB-2003; Aeomica, Inc. (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 5249 from Patent AX692517
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                         Aeomica,
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                                                                         Shannon, M.,
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                                    Patent: EP 1281758-A 5250 05-FEB-2003;
                                                             Four human zinc-finger-containing proteins
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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Pred. No. 1.9e+02;
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Location/Qualifiers
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                                                                                                                                                                                                                                                                            17 bp
Sequence 45 from Patent WO03025176.
AX722358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Method and reagent for inhibiting HBV viral replication Patent: EP 1288296-A 355 05-MAR-2003; RIBOZYME PHARMACEUTICALS, INC. (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Herpes simplex virus unknown type
Herpes simplex virus unknown type
Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
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                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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                                                                                                                   Patent: WO 03025176-A 45 27-MAR-2003;
                                                                                                                                  medicines
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                                      /organism="Mus musculus"
/mol_type="genomic DNA"
/db_xref="taxon:10090"
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/mol_type="genomic RNA"
/db_xref="taxon:126283"
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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AX722882
                                                                                                                                                    Patent: WO 03025176-A 883 27-MAR-2003;
Molecular Engines Laboratories (FR)
Location/Qualifiers
                                                                                                                                                                                                   Telerman,A., Amson,R. and Tuijnder,M.
Sequences involved in phenomena of tumour suppression, tumour suppression, apoptosis and/or virus resistance and their use
                                                                                                                                                                                                                                                                                Mus musculus
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Sequences involved in phenomena of tumour suppression, reversion, apoptosis and/or virus resistance and their
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Mammalia; Eutheria; Rodentia;
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Location/Qualifiers
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/mol_type="genomic DNA"
/db_xref="taxon:10090"
1 c 5 g
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Sciurognathi; Muridae;
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Mus musculus
Eukaryota; Metazoa; Chorda
                                                                                                                                                                                                                                                    Patent: WO 03025176-A 2360 27-MAR-2003;
Molecular Engines Laboratories (FR)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                              Telerman,A., Amson,R. and Tuijnder,M. Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or virus resistance and their use as
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Molecular Engines Laboratories (FR)
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Sequences involved in phenomena of tumour suppression, tumoreversion, apoptosis and/or virus resistance and their use
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Sequence 1842 from Patent
AX724155
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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Similarity 87.5%;
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Mammalia; Eutheria; Rodentia;
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/mol_type="genomic DNA"
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Pred. No. 1.9e+02;
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Sequence 3464 from Patent
AX725777
AX725777.1 GI:30505120
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Location/Qualifiers
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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Molecular Engines Laboratories (FR)
Location/Qualifiers
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Mus musculus
Mus musculus
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
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/mol_type="genomic DNA"
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             Bukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                  Mus musculus (house mouse)
                                                                             AX726992.1
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                                                                                                                                                                                                                                                                                                                                                    Patent: WO 03025176-A 3556 27-MAR-2003;
Molecular Engines Laboratories (FR)
Location/Qualifiers
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Sequences involved in phenomena of tumour suppression, tumoreversion, apoptosis and/or virus resistance and their use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus (house mouse)
Mus musculus
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Mammalia; Eutheria; Rodentia;
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5 c     4 g
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/mol_type="genomic DNA"
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2 c 6 g
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Rodentia;
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Pred. No. 1.9e+02;
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Pred. No. 1.9e+02;
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          Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
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Sciurognathi; Muridae;
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Sciurognathi; Muridae; Murinae; Mus
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Matches 14; Conserv
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Best Local Similarity 87.5%;
Matches 14; Conservative
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Sequence
AX727199
Telerman,A., Amson,R. and Tuijnder,M. Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or virus resistance and their use as medicines
Patent: WO 03025176-A 4886 27-MAR-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus musculus (house mouse)
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Sequence 4825 from Patent WO03025176.
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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Location/Qualifiers
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Sequences involved in phenomena of tumour suppression,
Sequences involved and/or virus resistance and their
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
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/db_xref="taxon:10090"
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Pred. No. 1.9e+02;
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AX728341/c
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                                                                                              Telerman,A., Amson,R. and Tuijnder,M.
Sequences involved in phenomena of tumour suppression,
reversion, apoptosis and/or virus resistance and their
                                                                                                                                                                                                                                              Sequence 6028 from Patent AX728341
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Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or virus resistance and their use as
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Location/Qualifiers
                                         Molecular Engines Laboratories
Location/Qualifiers
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Mammalia; Eutheria; Rodentia;
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Mammalia; Eutheria; Rodentia;
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/mol_type="genomic DNA"
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/db_xref="taxon:10090"
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3 c 2 g
              organism="Mus musculus"
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Pred. No. 1.9e+02;
0; Mismatches 2
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Pred. No. 1.9e+02;
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Sequences involved in phenomena of tumour suppression, tumour suppression, apoptosis and/or virus resistance and their use
                                                                                                                            Patent: WO 03025175-A 224 27-MAR-2003;
Molecular Engines Laboratories (FR)
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Molecular Engines Laboratories (FR)
Location/Qualifiers
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                         /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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Sequences involved in phenomena of tumour suppression,
Serversion, apoptosis and/or virus resistance and their
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AX729046
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Molecular Engines Laboratories (FR)
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/mol_type="genomic DNA"
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REFERENCE
AUTHORS
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RESULT 292
AX729354/c
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Best Local Similarity
Matches 14; Conserv
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Best Local Similarity 87.5%;
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Sequence 930 from Patent WO03025175.
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Sequence 960 from Patent
AX729326
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Molecular Engines Laboratories (FR)
Location/Qualifiers
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Molecular Engines Laboratories (FR)
Location/Qualifiers
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Sequences involved in phenomena of tumour suppression, tumo reversion, apoptosis and/or virus resistance and their use
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/mol_type="genomic DNA"
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/mol_type="genomic DNA"
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Sequence 2026 from Patent
AX730392
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Sequences involved in phenomena of tumour suppression, tumoreversion, apoptosis and/or virus resistance and their use
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Sequence 1214 from Patent
AX729580
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Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or virus resistance and their use
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AX729354
AX729354.1 GI:30508697
Homo sapiens (human)
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Mammalia; Eutheria; Primates;
                             AX730392.1 GI:30509735
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Molecular Engines Laboratories (FR)
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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Pred. No. 1.9e+02;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                         Homo sapiens (human)
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Location/Qualifiers
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Homo sapiens
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata, Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Sequence 3121 from Patent
AX731487
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Molecular Engines Laboratories (FR)
Location/Qualifiers
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Telerman,A.,
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/mol_type="genomic DNA"
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Pred. No. 1.9e+02;
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Pred. No. 1.9e+02;
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                                         Telerman,A., Amson,R. and Tuijnder,M.
Sequences involved in phenomena of tumour suj
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Location/Qualifiers
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Patent: WO 03025175-A 3682 27-MAR-2003;
Molecular Engines Laboratories (FR)
                              medicines
                                                                                                                                  Homo sapiens
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Mammalia; Eutheria; Primates;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
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/mol_type="genomic DNA"
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Sequence 5107 from Patent
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                                                           Molecular Engines Laboratories (FR)
Location/Qualifiers
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Molecular Engines Laboratories (FR)
Location/Qualifiers
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Sequence 3683 from Patent
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Sequence 5408 from Patent WO03025175.
AX733774
AX733774.1 GI:30513117
                                                                                                                                                                                 Telerman,A., Amson,R. and Tuijnder,M.
Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or virus resistance and their use as
                                                                                                                                                                                                                                                                     Homo sapiens (human)
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Sequence 5584 from Patent
AX733950
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                                                                                                                                           Patent: WO 03025175-A 5584 27-MAR-2003;
Molecular Engines Laboratories (FR)
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Molecular Engines Laboratories (FR)
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Eutheria; Primates;
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                                                       /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/mol_type="genomic DNA"
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Pred. No. 1.9e+02;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Sequence 357 from Patent
AX734767
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Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or resistance to viruses and the use thereof as medicaments
Patent: WO 03025177-A 468 27-MAR-2003;
Molecular Engines Laboratories (FR)
Location/Qualifiers
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Patent: WO 0302517-A 357 27-MAR-2003;
Molecular Engines Laboratories (FR)
Location/Qualifiers
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
                                                                                                             /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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AX738552/c
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AX738552 17 bp DNA Sequence 4142 from Patent WO03025177.
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Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or resistance to viruses and the use thereof as medicaments
Patent: WO 03025177-A 3051 27-MAR-2003;
Molecular Engines Laboratories (FR)
Location/Qualifiers
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Sequences involved in phenomena of tumour suppression, tumour seversion, apoptosis and/or resistance to viruses and the use thereof as medicaments patent: WO 03025177-A 768 27-MAR-2003; Molecular Engines Laboratories (FR)
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Sequence 768 from Patent WO03025177,
AX735178
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Similarity 87.5%;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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AX738641/c
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il Similarity 87.5%;
14; Conservation
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                                         AX744527
Sequence 492 from Patent
AX744527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14;
                                                                                                                                                                                                                                                                                                                                           Molecular Engines Laboratories (FR)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                       Telerman,A., Amson,R. and Tuijnder,M. Sequences involved in phenomena of tumour reversion, apoptosis and/or resistance to thereof as medicaments
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 4231 from Patent AX738641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      thereof as medicaments
Patent: WO 03025177-A 4142 27-MAR-2003;
Molecular Engines Laboratories (FR)
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Sequences involved in phenomena of tumour suppression, tun
reversion, apoptosis and/or resistance to viruses and the
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                             AX744527.1
                                                                                                                                                                                                                                                                                                                                                                         Patent: WO 03025177-A 4231 27-MAR-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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AX738552.1 GI:30517840
Homo sapiens (human)
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nilarity 87.5%;
Conservative
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
4 c 4 g
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/db_xref="taxon:9606"
5 c 4 g
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                             GI:30723194
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Pred. No. 1.9e+02;
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Pred. No. 1.
                                                            WO03031621.
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ORGANISM

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AX744529
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                                     synthetic construct artificial sequences.

1 (Dases 1 to 17)

Draper, K.G., Dadyktz, L.W., Macswigen, J.A., Maysejak, D.G., Holesek, J.J. and Mamone, A.J.
Method and reagent for inhibiting viral replication Patent: JP 2000342285-A 335 12-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A human G protein coupled receptor Patent: WO 03031621-A 492 17-APR-2003; Amersham Biosciences (SV) Corp. (US)
RIBOZYME PHARMACEUTICALS INC OS Artificial Sequence PN JP 2000342285-A/335
                                                                                                                                              BD001175.1 GI:18625734 JP 2000342285-A/335.
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Patent: WO 03031621-A 494 17-APR-2003;
Amersham Blosciences (SV) Corp. (US)
Location/Qualifiers
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                                                                                                                                synthetic construct
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/db_xref="taxon:9606"
8 c 1 g
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/db_xref="taxon:9606"
7 c 1 g
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Primates;
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Pred. No. 1.9e+02;
0; Mismatches 2;
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Pred. No. 1.9e+02;
D; Mismatches 2;
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RESULT 312
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JOURNAL
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Best Local Similarity 87.5%;
Matches 14; Conservative
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PF 01-MAY-2000 JP 2000132616

PR 11-MAY-1992 US 07/882689,14-MAY-1992 US 14-MAY-1992 US 07/882713,14-MAY-1992 US 07/882713,14-MAY-1992 US 07/88283,14-MAY-1992 US 07/88283,14-MAY-1992 US 07/882889,14-MAY-1992 US 07/882889,14-MAY-1992 US 07/882922,14-MAY-1992 US 07/882922,14-MAY-1992 US 07/882922,14-MAY-1992 US 07/882922,14-MAY-1992 US 07/88349714-MAY-1992 US 07/884074,14-MAY-1992 US 07/884074,14-MAY-199
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OS Artificial Sequence
PN JP 2000342286-A/335
PD 12-DEC-2000
PF 01-MAY-2000 JP 200013
                                                                    14-MAY-1992
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PC C12N15/00,
C12N15/00,
PC C12N5/
CC
FH Key
FT BOUICE
                                                                                                                                                                                                                                                                                                                                                                                                   synthetic construct
synthetic construct
artificial sequences.

1 (bases 1 to 17)
Draper, K.G., Dadyktz, L.W., Macswigen, J.A., Maysejak, D.
Holesek, J.J. and Mamone, A.J.
                                                                                                                                                                                                                                                                                                                                                               Method and reagent for inhibiting viral replication Patent: JP 2000342286-A 335 12-DEC-2000;
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    111-MAY-1992 US
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C12N15/09, C12N5/10, C12N7/00, C12N9/22//(C12N5/10, C12R1:91),
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Location/Qualifiers
00 JP 2000132651
)92 US 07/882689,14-MAY-1992 US
3 07/882713,14-MAY-1992 US
S 07/882823,14-MAY-1992 US
S 07/882886,14-MAY-1992 US
S 07/882886,14-MAY-1992 US
JS 07/882889,14-MAY-1992 US
JS 07/882927,14-MAY-1992 US
US 07/883849,14-MAY-1992 US
US 07/8844674,14-MAY-1992 US
US 07/8844674,14-MAY-1992 US
US 07/884436,14-MAY-1992 US
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Matches
 Query Match
                                                                                                                                                                                                                                AUTHORS Akhtar, S., Fell, P. and Mcswiggen, J.A.

*ITLE Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors rispers. JP 2001511003-A 184 07-AUG-2001;

RIBOZYME PHARMACEUTICALS INC, ASTON UNIV

OS Unidentified PN UP 2001511003-A/184

PD 07-AUG-2001

PF 14-JAN-1900

PR 11
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15-OCT-1992 US
07-DEC-1992 US
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CC TC
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FH Key
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PI JAME
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PC A61K
PC A61K
PC A61F
PC A61F
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(C12N15/09,C12R1:93),C12N15/00,C12N5/00,A61K37/48,(C12N15/00,
                                                                                                                                                           Topology: Linear;
Enzymatic nucleic acid treatment
related to
                                                                                                                                                                                                    T-UAN-1997 US 60/336476,04-DEC-1997 US
R AKHTAR, PATRICIA FELL, JAMES A MCSWIGGEN PC
/00,C07K14/71
Strandadnor
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C12N15/09, C12N5/10, C12N7/00//A61K38/43, A61K39/125, A61K39/13,
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A61K39/145,A61K39/21,A61K39/23,A61K39/245,A61K39/29,A61K48/00,
                                                                                                                                                                                               Strandedness: Single;
                                                                                                                             levels of epidermal growth factor receptors
Location/Qualifiers
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                                   /organism="unidentified"
/mol_type="genomic RNA"
/db_xref="taxon:32644"
                                                                                            Location/Qualifiers
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/db_xref="taxon:32630"
5 c 7 g
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07/963322,07-DEC-1992 US 07/9871
07/987130,07-DEC-1992 US 07/9871
JEC W DADYKTZ,JAMES A MACSWIGEN, PI
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Length 17;
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07/987129 PR
07/987133 PI
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PR 31-JAN-1997 US 60/036476,04-DEC-1997 US SAGHIR AKHTAR, PATRICIA FELL, JAMES A MCSWIGGEN PC C1N9/00,C07K14/71
CC Strandedness Single;
CC Topology: Linear.
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to levels
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Kit and method for determining HLA type
Patent: WO 0192572-A 1010 06-DEC-2001;
NISSHINBO INDUSTRIES INC. SYSTEM RESEARCH INC, HIDETOSHI INOKO,
                                       Inoko,H., Kagiya,T., Ichihara,T., Matsumura,Y.,
Nishida,M.
                                                                                                    BD104906.1 GI:22650480
WO 0192572-A/1010.
synthetic construct
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Kit and method
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Akhtar,S., Fell,P. and Mcswiggen,J.A.
Akhtar,S., Fell,P. acid treatment of diseases or conditions related
to levels of epidermal growth factor receptors
Patent: JP 2001511003-A 326 07-AUG-2001;
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JP 2001511003-A/326.
                                                               artificial sequences.

1 (bases 1 to 17)
                                                                                         synthetic construct
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Key Location/Qualifiers
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Enzymatic nucleic acid treatment of diseases
                                                                                                                                                                                                                                                                                                                                                                                              /organism='Unidentified'.
Location/Qualifiers
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/db_xref="taxon:32644"
2 c 6 g
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KAGIYA, TATSUO ICHIHARA, YOSHIYUKI MATSUMURA, SHOGO

MORIYA, MICHIO

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REFERENCE
AUTHORS
TITLE
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AUTHORS
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FEATURES
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OS Art
PN WO
PD 06-
PF 01-
PR 01-
PR HID
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129872
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107297
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PI SHOGO
PC C12Q1.
CC Descr:
FH Key
FT source
                                                                                                                                                                                                                                                                                                                                           1 (bases 1 to 17)
Fuchs, R.L., Kishore, G.M. and MacIntosh, S.C.
Method for improving the efficacy of insect
Patent: EP 0339009-A2 9 25-CCT-1989;
                                 1 (bases 1 to 17)
Seizinger, B.R., Kley, N.A. and Bianchi, A.B.
             Patent: US 5578462-A 23 26-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                          Unknown
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WO 0192572-A/1010
00-DEC-2001
01-JUN-2001 WO 2001JP004662
01-JUN-2000 JP 00P 164798
HIDETOSHI INOKO,TAEKO KAGIYA,TATSUO ICHIHARA,YOSHIYUKI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SHOGO MORIYA, MICHIO NISHIDA
C12Q1/68, C12M1/00, C12N15/09, G01N33/53
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Location/Qualifiers
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/db_xref="taxon:32630"
8 c 3 g
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I37681
                                                                                                                     1 (bases 1 to 17)
Draper K.G., Pavco, P., McSwiggen, J., Stinchcomb, D.T.
Stromelysin targeted ribozymes
Patent: US 5612215-A 695 18-MAR-1997;
                                                                                                                                                                                 Unknown
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                                                                                                                                                                                                                                                                                                                                                                                                                                       Unclassified.
1 (bases 1 to 17)
Draper, K. G., Pavco, P., McSwiggen, J., Stinchcomb, D.T.
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RESULT 320 152675/c

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152675
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Stinchcomb, D.T., Draper, K., McSwiggen, J.
C-myb targeted ribozymes
Patent: US 5646042-A 534 08-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 (bases 1 to 17)
Stinchcomb, D.T., Draper, K., McSwiggen, J.
C-myb targeted ribozymes
Patent: US 5646042-A 416 08-JUL-1997;
Location/Qualifiers
                                       1 (bases 1 to 17)
Stinchcomb.D.T., Draper,K., McSwiggen,J.
C-myb targeted ribozymes
Patent: US 5646042-A 1114 08-JUL-1997;
                                                                                                                                     Sequence 1114 from patent I53373
                                                                                                                           153373.1
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IS3375
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Stinchcomb,D.T., Draper,K., McSwiggen,J.
C-myb targeted ribozymes
Patent: US 5646042-A 2423 08-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 (bases 1 to 17)
Stinchcomb, D.T., Draper, K., McSwiggen, J.
C-myb targeted ribozymes
Patent: US 5646042-A 1116 08-JUL-1997;
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Draper, K.G., Pavco, P., McSwiggen, J., Gustofson, J.
Stinchcomb, D.T.
Method of reducing stromelysin RNA via ribozymes
Patent: US 5731295-A 695 24-MAR-1998;
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Draper, K.G., Pavco, P., McSwiggen, J., Gustofson, J.
Stinchcomb, D.T.
Method of reducing stromelysin RNA via ribozymes
Patent: US 5731295-A 694 24-MAR-1998;
                                                                                       of fowlpox viruses
Patent: US 6103244-A 75 15-AUG-2000;
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Dorner, F., Scheiflinger, F., Falkner, F. Gu
Methods for generating immune responses
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Sequence 75 from patent US
AR105805
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synthetic construct
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1 (bases 1 to 14)

Sykes, K.F. and Johnston, S.A.

Methods of screening open reading frames to determine whether they encode polypeptides with an ability to generate an immune response Patent: US 6410241-A 3 25-JUN-2002;
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Patent: JP 2002017374-A 5 22-JAN-2002;
MINEO ISEKI MASAKATSU WATANABE
OS Artificial Sequence
PN JP 2002017374-A/5
PD 22-JAN-2002
PF 03-JUL-2000 JP 200240426
PI MINEO ISEKI MASAKATSU WATANABE
PC C12N15/09,C12N9/88//(C12N9/88,C12R1:89)
unidentified unidentified unclassified.
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/mol_type="genomic DNA"
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                                                                                            unidentified unidentified unclassified.
Other publication AU 1444397 19970820
            Stuyver,L., Louwagie,J. and Rossau,R. METHOD FOR DETECTION OF DRUG-INDUCED MUTATIONS TRANSCRIPTASE GENE Patent: WO 9727332-A 157 31-JUL-1997; INNOGENETICS NV (BE)
                                                                                                                                                             A64369
Sequence 157 from Patent
A64369
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Windass, J. D.
BIOLOGICAL INSECT CONTROL AGENT
Patent: WO 9526410-A 13 05-OCT-1995;
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Guest, P.J., Windass, J.D., Suner, M. and Earley, F.G.
BIOLOGICAL CONTROL AGENTS CONTAINING MOLLUSC TOXINS
Patent: WO 9423047-A 13 13-OCT-1994;
ELNECA LTD (GB)
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ZENECA LTD (GB)
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/mol_type="genomic DNA"
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AR028992/c
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AR028988
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Schreiber, A.D. and Park, J.-G.
Method of inhibiting phagocytosis
Patent: US 5858981-A 31 12-JAN-1999;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                  1 (bases 1 to 15)
Schreiber, A.D. and Park, J.-G.
Method of inhibiting phagocytosis
Patent: US 5858981-A 27 12-JAN-1999;
Location/Qualifiers
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AR028992
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Pred. No. 1.9e+02;
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Pred. No. 1.9e+02;
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AR156870/c
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AR133690/c
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AR102668
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Schreiber, A.D. and Park, J.-G.
Methods of inhibiting phagocytosis
Patent: US 6242427-A 27 05-JUN-2001;
                                                                                    Unknown
                                                                                                                                                                                                                                                                                                                                        1 (bases 1 to 15)
Stinchcomb,D.T., Jarvis,T. and McSwiggen,J.
Nucleic acid based inhibition of CD40
Patent: US 6194150-A 2115 27-FEB-2001;
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Patent: US 6087093-A 157 11-JUL-2000;
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Method for detection of drug-induced mutations
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Pavco, P., McSwiggen, J., Stinchcomb, D. and Escobedo, J.
Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor Patent: US 6346398-A 8473 12-FEB-2002;
                                                                                                                                                                                                                                                                                                      AR192985
Sequence 8473 from patent
AR192985
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Schreiber, A.D. and Park, J.-G.
Methods of inhibiting phagocytosis
Patent: US 6242427-A 31 05-JUN-2001;
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Sequence
AX598514
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Brower,A., Brow,M.A., Cracauer,R.F., Fors,L., Granske,R., de arruda Indig,M., Kurensky,D., Luedtke,C., Lukowiak,A.A., Lyamichev,V., Neri,B.P., Reimer,N.D., Roeven,R.T., Skrzypczynski,Z., Ziarno,W.A., Comerford,J., Stump,S. and Viegut,D.D.
                                                                   synthetic construct
synthetic construct
artificial sequences.
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Patent: US 6331389-A 157 18-DEC-2001;
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5 c 1 g
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/db_xref="taxon:32630"
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Patent: EP 1260586-A 5046 27-NOV-2002;
RIBOZYME PHARMACEUTICALS, INC. (US)
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Location/Qualifiers
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                                       1 (bases 1 to 15)
Yabusaki,Y., Murakami,H., Sakaki,T., Shibata,M.
Yabusaki,Y., Murakami,H., Sakaki,T., Shibata,M.
SOLUBLE NAPH-CYTOCHROME P-450 REDUCTASE
Patent: JP 1994113336-A 5 26-ARR-1994;
AGENCY OF IND SCIENCE & TECHNOL
                                                                                                                                                                                          Synthetic DNA linkers
E07289
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 5046 from Patent AX637907
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/mol_type="genomic DNA"
/db_xref="taxon:32630"
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/db_xref="taxon:32644"
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92.9%; Pred. No. 1.9e+02;
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RESULT 347
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                                                                                                                    OS None
OS Artificial
PN JP 196228
PD 10-SEP-199
PF 12-AUG-198
PF YABUSAKI YC
SHIBATA MEGUMI,
PI OKAWA HIDEC
PC C12N15/09/
PC C12R1.865)
PC C12R1.865)
PC C12R1.965/
PT SOURCE
PH Key
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PH Key
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PI OKAWA HIDE
PC C12N9/02,C
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                                                                                                                                                                                                                                                                                                                                            1 (bases 1 to 15)
Yabusaki,Y., Murakami,H., Sakaki,T., Shibata,M.
PRODUCTION OF CHIMBRA OXIDASE
Patent: JP 1996228776-A 4 10-SEP-1996;
AGENCY OF IND SCIENCE & TECHNOL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                        unidentified
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                                                                                                                                                                                                                                                                                                                                                                                                              unclassified
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                26-APR-1994
25-OCT-1991 JP 1991305592
YABUSAKI YOSHIYASU, MURAKAMI HIROKO,
                                                                                                                                                                                                                                                                             JP 1996228776-A/4
10-SEP-1996
12-AUG-1986 JP 1995347122
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topology: Linear;
hypothetical: No;
                                                                                                                                                                         topology: Linear;
hypothetical: No;
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                                                                                                                                                                                                                C12R1:865)
                                                                                                                                                                                                                          OKAWA HIDEO
C12N15/09//C12N1/19,C12N9/02,(C12N1/19,C12R1:865),(C12N9/02
                                                                                                                                                                                                                                                                  YABUSAKI YOSHIYASU,
                                                                                                                                                                                                                                                                                                                     Artificial sequences
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                                                                                                     /organism='Artificial sequences'
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/db_xref="taxon:32644"
5 c 3 g
                                      /organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"
5 c 3 g
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Location/Qualifiers
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0.9%;
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Score 12.4; DB 1;
Pred. No. 1.9e+02;
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Pred. No. 1.9e+02
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RESULT 350
AX132931/c
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AR054087/c
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ORGANISM
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           Homo sapiens (human)
                                                Sequence 4149 from Patent
AX132931
                                                                                                                                                                                                                                   1 (bases 1 to 16)
Goldenberg, T. and Tritz, R.
Ribozyme therapy for the inhibition
Patent: US 5834440-A 14 10-NOV-1998;
                                                                                                                                                                                                                                                                                                                           Sequence 14 from AR054087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 (bases 1 to 15)
McSwiggen, J., Draper, K., Pavco, P. and
Respiratory syncytial virus ribozymes
Patent: US 5693532-A 296 02-DEC-1997;
Eukaryota; Metazoa; Chordata; Craniata;
                                        AX132931.1
                                                                    AX132931
                                                                                                                                                                                                                                                                                     Unknown
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4 c 1 g
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3 c 1 g
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                                       GI:14139241
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Pred. No. 1.9e+
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 Vertebrata; Euteleostomi;
                                                                                                                                                                          Length 16;
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                                                                                                                                                        Indels
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AX320908
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TITLE
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Matches 13; Conserv
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Sitosterolemia of use
                                                                       Homo sapiens (human)
                                                                                                                          Sequence 29
AX320908
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Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 4370 from Patent AX133152
                        Tian, H.,
                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                             AX320908.1 GI:17902457
                                                                                                                                                                                                                                                                                                                                                                                                                                         Robbins, J.M. and Tritz, R.
Ribozyme therapy for the treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patent: WO 0130362-A 4149 03-MAY-2001; IMMUSOL, INC. (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Robbins, J.M. and Tritz, R. Ribozyme therapy for the treatment of
                                                                                                                                                    AX320908
                                                                                                                                                                                                                                                                                                                                                                                                                 Patent: WO 0130362-A 4370 03-MAY-2001;
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                                                                                                                                                                                                                                                                Conservative
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             Schultz,J. and Shan,B.
plemia susceptibility g
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/db_xref="taxon:9606"
/note="Hairpin ribozyme recognition site for 4 c 1 g 7 t
                                                                                                                                                                                                                                                                                                                  /note="Hammerhead ribozyme recognition site
4 c 1 g 7 t
                                                                                                                                                                                                                                                                                                                                      /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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Primates;
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Pred. No. 2e+0:
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Catarrhini;
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2e+02;
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           (ssg): compositions and methods
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APC mutation corre MSH2 mutation corr MSH2 mutation corr Human Chk1 ribozym Human Chk1 ribozym Human Chk1 ribozym	Oestrogen receptor Oestrogen receptor APC mutation corre	Hammerhead ribozym Hammerhead ribozym Oestrogen receptor	Human C-raf target Human C-raf target	Human C-raf target	Human B-raf substr Human B-raf substr Human C-raf target	Mouse neurofibroma	Integrin alpha o s	Integrin alpha 6 s	Integrin alpha 6 s	Human TIE-2 substr Human TIE-2 substr	Potato citrate syn	Human EGF-R target	PCR primer, 5m9, f	Human flt1 VEGF re Human flt1 VEGF re	ΞŒ	Mouse fik-1 VEGF r	flt-1 VEGF	c-myb	Human c-myb hammer Human c-myb hammer	Rabbit stromelysin Rabbit stromelysin	Herpes simplex vir	Dopamine-D2-recept	ICAM-1 triple heli ICAM-1 triple heli	Acidobacterium Tag	Human GDMLP-1 17-m	Human GDMLP-1 17-m Human GDMLP-1 17-m	Human GDMLP-1 17-m	Human GDMLP-1 17-m	Human GDMLP-1 17-m	Human GDMLP-1 17-m Human GDMLP-1 17-m	NOGO Z	Hepatitis C virus Human Chkl ribozym	rimer for	Delta-9 desaturase Primer for KDR sig	1	Human eIF2Bgamma r Rabbit stromelvsin	IGF-I oligonucieot Human interleukin-	•
393 C 395 C 396 C 397 398	c 39		C 38			C 37	c 37		C 37			0 0 0		C 36	36			35	35	35	35	35	34	34		3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	C 34			c 33			c 33				c 32	
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Human HER2 DNAzyme Human HER2 DNAzyme Oligonucleotide SE Oligonucleotide SE Oligonucleotide SE Oligonucleotide SE	Humar Humar Humar	NFKB su Stabili Human F	Tumou NFKB	Tumour	Tumour Tumour	Tumou	Tumou	Tumou	Tumou	Tumou	Tumour	Human	Human	Human Human	Human Human	Human	Human GDMLP-1 17	Human	Human	Human Human	Human	Human	Human Human	Human	Human	Human	Human	Ataxia	Human	Human	Human	Humar	Huma	Huma	Huma	Humai	Human Human	: i

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AAX57566
AAX59271
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AAD49046
AAT60192
AAA86559
AAA86780
AAH61725
AAH61946
AAS05233
ABN84079
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AAF53986
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AAC62187
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AAF52781
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AAZ90900
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AAZ909008
AAH26020
AAH18856
AAF69549
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AAF46266
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AAT56846
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Human IL4Ralpha ge
IGFBP2 oligonucleo
IGFBP2 oligonucleo
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Human CD40 hammerh
Human CD740 hammerh
Human CTP HH ribo
Human flt-1 and KD
Probe 219m8 for dr
Peptide nucleic ac
Antisense oligo #5
Human NR8 gene pro
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Human TIE-2 target
Primer SEQ ID 3 us
Primer SEQ ID 5 us
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                                                         Mycobacterium kans
FR1 collar sequenc
Human sitosterolae
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PCNA hammerhead ri
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AAQ13309/c
ID AAQ13309 standard; DNA; 30
XX
AAQ13309;
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AAQ13309;
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AAQ13309;
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AAQ13309;
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AAQ13309;
XX
Probe OAB984 for bFGF record of the control of the cont
RESULT 2
AAF58623
ID AAF5
XX
AC AAF5
XX
DT 27-A
DT 27-A
XX
W Mous
XX
KW Mous
XW gene
XX
SM Mus
XX
DX
OS Mus
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DX
OS Mus
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OS O1-F
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Best Local S
Matches 27
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                                                                    Mouse; c-kit; drosophila recombination associated protein; DRAP; gene targeting; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Extracellular form of human fibroblast growth factor receptor used to treat tumours, abnormal angiogenesis e.g. diabetic retinopathy, rheumatoid arthritis and arteriosclerosis and as contraceptives.
                       WO200107627-A1
                                                                                                          Murine c-kit exon 17
                                                                                                                                 27-APR-2001
                                                                                                                                                         AAF58623;
                                                                                                                                                                                AAF58623 standard; cDNA; 31
                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1; Page 11; 29pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Basic fibroblast growth factor; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Probe OAB984 for bFGF receptor DNA
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27; Conserv
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ilarity 93.1%;
Conservative
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(first entry)
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                                                                                                          potential mutagenic oligonucleotide
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Pred. No. 4.5;
0; Mismatches
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RESULT 3
AAV44045/c
ID AAV440
XX AAV440
XX AAV440
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DT 25-MAR
DT 01-OCT
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OS MUS SP
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Best Local S
Matches 26
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             Assays for high-affinity heparin-binding growth factor receptor ligands - using receptor-overexpressing cells or cell-free systems.
                                                                                                                                                                                                                                                                                                                            Basic fibroblast growth factor receptor; bFGF; heparin binding; murine; antitumour agent; inhibitor; wound healing; PCR primer; ss.
                                                        WPI; 1998-446074/38.
                                                                                                                                                          20-DEC-1990;
14-DEC-1993;
                                                                                                                                                                                                    14-DEC-1993;
                                                                                                                                                                                                                                04-AUG-1998.
                                                                                                                                                                                                                                                                                                      Synthetic.
                                                                                                                                                                                                                                                                                                                                                                            Mouse bFGF
                                                                                                                                                                                                                                                                                                                                                                                                        25-MAR-2003
01-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 31 BP; 10 A; 5 C; 8 G; 8 T; 0 other;
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                                                                                   Flanagan JG,
                                                                                                                                                                                                                                                            US5789182-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAV44045;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAV44045 standard;
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                                                                                                                              (CHIL-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The DRAP gene is suitable for very efficient gene targeting
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                                                                                                               CHILDRENS MEDICAL CENT HARVARD COLLEGE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8; Page 7; 63pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGTATTCATCGAGATTTAGCAGCCAGAAAT 2166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGTATTCACAGAGATTTGGCAGCCAGGAAT 30
                                                                                                                                                                                                                                                                                                                                                                         receptor DNA PCR
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(first entry)
                                                                                   Klagsbrun M,
                                                                                                                                                         90US-0631717.
93US-0166717.
                                                                                                                                                                                                    93US-0166717.
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                                                                                   Leder P,
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Pred. No. 11
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                                                                                      Ornitz
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                                                                                   Yayon
             system
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Best Local
           This oligonucleotide was designed to amplify the region of homology in the kinase domains of PDGF receptor, HER2, HER3, FGF-FIG, FGF-BEK, insulin receptor and IRR. It was used with another kinase homology domain-based primer (see AAV05313) in the amplification of human LIM-kinase 1 (LIMK1) sequences. The LIMK1 gene is composed of 16 exons (see AAV0315 and AAT99599-T99629) and located 15.4 kb 3' of elastin in chromosome 7. It encodes a novel protein kinase (see AAW46576). Williams syndrome cognitive profile (WSCP) is detected by determining zygosity of the LIMK1 locus, with hemizygosity being indicative of impaired visuo-spatial constructive cognition. Chromosome 7 deletion analysis allows
                                                                                                                                                                                                                                          Diagnosing Williams syndrome cognitive profile from hemizygosity of LIMK1 - gene on chromosome 7 encoding new kinase, allowing differentiation from classic Williams syndrome and supra-vascular
                                                                                                                                                                                                                                                                 Diagnosing Williams syndrome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAV44043-V44045 are PCR primers used to amplify a murine basic fibroblast growth factor (bFGP) which is a member of the heparin-binding growth factor receptor family. This protein is used in a method which assays the ability of a substance to bind to a high-affinity heparin-binding growth factor (HBGP) receptor. The assay screens for potential antitumour agents that inhibit binding of HBGF to high-affinity receptors, or for potential wound healing agents that promote such binding.
                                                                                                                                                                                                  Example 3; Page 22; 62pp; English
                                                                                                                                                                                                                                                                                                            WPI; 1998-101185/09.
                                                                                                                                                                                                                                                                                                                                                                                                                                   07-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Williams syndrome cognitive profile; WSCP; cognition; LIM-kinase 1; LIMK1 gene; supra-vascular aortic stenosis; protein kinase; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     06-JUL-1998
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                                                                                                                                                                                                                                                                                                                                        Keating MT,
                                                                                                                                                                                                                                                                                                                                                                        (UTAH ) UNIV UTAH RES FOUND
                                                                                                                                                                                                                                                                                                                                                                                                     10-JUL-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Kinase domain 3'
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GAGATGGAGATGAAGATGAAT 5
                                                                                                                                                                                                                                                                                                                                        Morris CA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCR primer.
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Pred. No. 19
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RESULT 5
AAQ52728/c
ID AAQ527
XX AAQ527
XX Pibrob
XX Pibrob
XX Synthe
XX US5270
XX US5270
XX OS-DEC
XX CLIL-
PA (HARD
XX HARD
XX HARD
XX CELL-
PA WPI; 1
XX WPI; 1
XX CElls
PT Sites
PT
RESULT 6
AAT63286/c
ID AAT632
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AC AAT632
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AC AAT632
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AC AAT632
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AC FGF re
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 22
                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 22; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and Williams syndrome
                        FGF receptor
                                                                        21-MAY-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 27 BP; 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        factor cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              conserved
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This primer and its 5'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Column 7; 37pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           agents or wound healing promoters
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cells having high-affinity heparin-binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1993-404932/50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Klagsbrun M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-DEC-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-DEC-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-DEC-1993.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US5270197-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fibroblast growth factor; DNA primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mouse fibroblast growth factor 3' DNA primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-JUN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAQ52728
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ52728 standard; DNA; 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (CHIL-) CHILDRENS MEDICAL CENT. (HARD ) HARVARD COLLEGE.
                                                                                                                                                                                                                                                                                                                      1874 AGATGGAGATGATGATGATT 1896
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2269 CCAGTCAAGTGGATGGCTCCAGA 2291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24
                                                                                                                                                                                                                                                                                         27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      are used for screening substances
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCAGTCAAGTGGATGGCTCCGGA 2
                                                                                                                                                                  standard; DNA;
                                                                                                                                                                                                                                                                                         AGATGGAGATGATGAAGATGAAT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         er and its 5' partner (AAQ52727) correspond to regions highly among mouse BEK, human FLG and chicken fibroblast growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 4 A; 10 C;
                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                        gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Leder P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      90US-0631717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       90US-0631717.
                        downstream primer binds bases 110-130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; 10 C; 1 G; 10 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.5%;
                                                                                                                                                                                                                                                                                                                                                                                               1.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ornitz DM,
                                                                                                                                                                  21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ВP
                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 21.4; D
Pred. No. 18;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                         Pred. No. 21;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                    Score 21.4;
Pred. No. 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Yayon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB
                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g growth factor binding for e.g. anti-tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ۲,
                                                                                                                                                                                                                                                                                                                                                                              ۲,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 25;
                                                                                                                                                                                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                              27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                Gaps
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RESULT 7
AAVO5498/c
ID AAVO54
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AAVO54
AC AAVO54
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DT 01-MAY
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DE Downst
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Inhibi
KW Inhibi
KW lepato
KW dry ey
KW dry ey
KW fibrob
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Synthe
OS Synthe
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                                                                                                                                                                                                                                                                                                                                        Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to methods for promoting corneal cell proliferation in vivo by treating the cells with hepatocyte growth factor (HGF) and optionally keratinocyte growth factor (KGF). Methods for suppressing corneal cell growth include administering Ca ions to the cells. The methods are used for the treatment of corneal tissue injury collars surgery or due to corneal disorders caused by abnormal healing processes of the corneal epithelium and endothelium. The methods are based on the discovery that corneal tissue can express mRNA for HGF, KGF and their respective receptors. The fibroblast growth factor (FGF) receptor 2 cDNA. This primer is the downstream amplification primer and corresponds to bases 110-130 of the pareface. The amplification primer and detected using probe
                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cornea; proliferation; in vivo; hepatocyte growth factor; injury; PCR; keratinocyte growth factor; ocular surgery; epithelium; endothelium; expression; receptor; polymerase chain reaction; amplification; primer; healing; beta-actin; upstream; downstream; intron; ss.
                                                           Inhibition, corneal epithelial cell; differentiation, treatment, hepatocyte growth factor; HGF; keratinocyte growth factor; KGF; dry eye; keratoconjunctivitis sicca; PCR primer; receptor; fibroblast growth factor; FGF; ss.
                                                                                                                                                                       01-MAY-1998
                                                                                                                                                                                                      AAV05498;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Promoting or suppressing corneal cell proliferation - usi hepatocyte growth factor or calcium ions resp., e.g. for corneal injury or for preserving corneal tissue prior to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US5589451-A.
                                                                                                                                       Downstream primer for FGF receptor DNA.
                                                                                                                                                                                                                                    AAV05498 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; Column 11-12; 25pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                transplantation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1997-076878/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Wilson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-SEP-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21-SEP-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31-DEC-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (TEXA ) UNIV
                                                                                                                                                                                                                                                                                                                                                                                       госят
                                                                                                                                                                                                                                                                                                                                  1322 TATCCTTTCACTCTGCATGGT 1342
                                                                                                                                                                                                                                                                                                               21
                                                                                                                                                                                                                                                                                                                                                                        . Similarity 21; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                     21
                                                                                                                                                                                                                                                                                                                                                                                                                                   B₽;
                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TEXAS SYSTEM
                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 92US-0947683.
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                                                                                                                                                                                                                                                                                                                                                                                                                                   9
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                                                                                                                                                                                                                                                                                                                                                                                     1.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                  3 C; 6 G; 3 T;
                                                                                                                                                                                                                                    21
                                                                                                                                                                                                                                                                                                                                                                                       Score 21; DB 1; Pred. No. 16;
                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                     0 other;
                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                     Length 21;
                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            using
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              treating
                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     growth factor
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Synthetic

Homo sapiens

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RAESULLT

AAX3489

ID AAA

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JLT 8
34892/c
Immortalized human hair papila cells used for evaluation of hair growth agent - are prepared by transformation of human hair papil cells with gene with deleted replication initiation point
                                                                                                                                                                                                                                                                                                                                                                                                                                                 SV40 viral Large T-antigen gene; deleted repli
hair growth stimulating agent; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 polymer microcapsules. The HGF topically. The method is used keratoconjunctivitis sicca.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KGF are both used, the cells can be contacted with them sequentially or simultaneously. The HGF and/or KGF is in a timed release delivery system, especially comprising biodegradable polymer microcapsules. The HGF and/or KGF are administered
                                                                                                                                                                                                                                                       19-SEP-1997;
                                                                                                                                                                                                                                                                                                         06-APR-1999.
                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Immortalized human hair papila cell; HPC; screening; hair growth; SV40 viral Large T-antigen gene; deleted replication initiation point;
                                                                                                                                                                                                                                                                                                                                                       JP11089565-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAX34892 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present sequence was used in the development of a novel method for the inhibition of corneal epithelial cell differentiation. The method comprises contacting the cells with a hepatocyte growth factor (KGF) and/or keratinocyte growth factor (KGF). When HGF and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Wilson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-MAR-1995;
21-SEP-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     09-MAR-1995;
                                                                                                                                                     (SHIS ) SHISEIDO CO
                                                                                                                                                                                                      19-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Inhibition of corneal cell differentiation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1998-076459/07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (TEXA ) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-DEC-1997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US5703047-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer used to amplify FGFR2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1322 TATCCTTTCACTCTGCATGGT 1342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            factor and/or keratinocyte growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Columns 17-18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TEXAS SYSTEM
                                                                                                                                                                                                      97JP-0271927
                                                                                                                                                                                                                                                       97JP-0271927.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          95US-0400323.
92US-0947683.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9 A;
                                                                                                                                                          LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 C; 6 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             36pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21;
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                         papila
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                                                                                                       Matches
                                                   Query Match
Best Local
                                                                                                                                  The specification describes the preparation of immortalized human hair papila cells (HPC). The method comprises transformation of HPC with an SV40 viral Large T-antigen gene with deleted replication initiation point. The immortalized HPC can be used in a screening method for a hair growth agent, by culture of immortalized HPC in the presence of a substance to be tested and observation of the growth of the immortalized HPC. HPC is also used in development of hair growth stimulating agents. The present sequence represents a PCR primer, which is used in the course of the invention.
                                                                                                   Sequence 20 BP; 1 A; 4 C; 4 G; 11 T; 0
                                                                                                                                                                                                                                                                                                        Example
     1470
                                    20;
                                                       Similarity
                                                                                                                                                                                                                                                                                                        2; Page 7; 23pp; Japanese
   AATGAAGAACACGACCAAGA 1489
                                     Conservative
                                                   100.0%;
                                                                    1.4%;
                                    0;
                                                                      Score 20;
                                                     Pred. No.
                                     Mismatches
                                                                                                       other;
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22;
                                                                    <u>ب</u>
                                     <u>,</u>
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20 AATGAAGAACACGACCAAGA 1

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RESULT 9
AAXOOO32/c
ID AAXOOO
XX AAXOOO
XX Neuroe
XW Neuroe
XW Neuroe
XW Oligod
XW centra
XX Contra
XX Contra
XX Contra
XX WO9850
XX WO1; 1
XX WO1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Neuroepithelial stem cell; lineage restricted intermediate precursor; oligodendrocyte; astrocyte; self-renewal; neuron; differentiation; neural creat cell; fibroblast growth factor; FGF, FGFF, receptor; CNS; central nervous system; glial cell; PCR primer; amplification; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAX00032 standard; DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-NOV-1998
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Mayer-Proschel M, 06-MAY-1998; 07-MAY-1997; 07-MAY-1998; (UTAH ) UNIV UTAH RES 98US-0073881. 97US-0852744. 98WO-US09630 Mujtaba FOUND H, Rao MS

Mammalian neuroepithelial stem cells and glial restricted precursor - can self renew and differentiate into central nervous system cells, used for generating various types of cells

Example 26; Page 57; 78pp; English

The present invention describes an isolated, pure population of mammalian neuroepithelial stem cells, which are capable of self-renewal in adherent feeder-cell-independent (ARCI) culture medium and differentiation to central nervous system (CNS) neuronal or glial cells and to neuronal crest stem cells. Also described is an isolated population of mammalian CNS glial-restricted precursor (GRP) cells which can self-renew in the APCI culture medium and can differentiate to CNS glial cells but not to CNS neuronal cells. The stem cells can be used to generate a population of mammalian motor neurons by incubating the stem cells in a medium promoting cell proliferation and neuronal

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Best Local
              claimed method for identifying the presence or absence of a deletion of the KIT gene sequence in pig genomic DNA. Other claimed primers (see AAT84420-27) are used to detect a duplication of the KIT gene. The 3 alleles for coat colour (I, inhibition of coat colour; I(p), patch; and i, development of colour) can be differentiated on the basis of duplication/deletion in the KIT gene. This allows breeding of pigs with the desired, usually white, coat colour.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  medium lacking chick embryo extract. The stem cells can also produce neural crest stem cells by inducing the cells to differentiate in vitro. The inducing step comprises replating the cells on a laminin-coated substrate and preferably withdrawing a mitogen (preferably fibroblast growth factor; FGF) and chick embryo extract. Inducing can also comprise adding a dorsalizing agent to the cells, preferably a bone morphogenetic protein (BMP) such as BMP-2, -4 or -7. The stem cells can be used to produce cells of the peripheral nervous system, by inducing the stem cells to differentiate in vitro to neural crest stem cells, and inducing these cells to differentiate. AAX00029 to AAX00054 represent PCR primers
                                                                                                                                                                                                                Determn. of coat colour genotype in pigs by analysis of the KIT gene - for duplication or deletions, or analysis of KIT protein, used to establish breeding programmes for pigs of selected colour
                                                                                                                                                                                                                                                                                                                                                                                         12-DEC-1995;
27-JUL-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KIT gene; pig; coat colour; pigmentation; primer; PCR; polymerase chain reaction; ss.
                                                                                                                                                                                    Claim 39; Page 43; 49pp;
                                                                                                                                                                                                                                                                                                               Wales
                                                                                                                                                                                                                                                                                                                                                                                                                                        24-JUL-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic
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                                                                                                                                                                                                                                                                                WPI; 1997-145712/13
                                                                                                                                                                                                                                                                                                                            Andersson L,
                                                                                                                                                                                                                                                                                                                                                            (DALG-) DALGETY PLC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO9705278-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KIT gene primer KITDEL1-FOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAT84432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     are used in an example from the present invention to amplify rent FGF and FGFR genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20
                                                                                                                                                     pairs KITDEL1-FOR (AAT84432) and KITDEL1-REV (AAT84433)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCATGGTTGACAGTTCTGC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 7 A; 6 C; 4 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                               Moller MJ,
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95GB-0015385.
                                                                                                                                                                                                                                                                                                                                                                                                                                        96WO-GB01794
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                                                                                                                                                                                    English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            for pig coat colour determination.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 20;
Pred. No.
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                                                                                                                                                                                                                                                                                                                            Siggens
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22;
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RESULT 11
AAV80714
ID AAV80
AC AAV80
AC
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                                                                            A method has been developed for: (a) differentiating animals and animal CC products according to breed origin; (b) determining or testing the breed CC origin of a product; or (c) validating an animal product. The method CC comprises analysing a sample of the product for the allele(s) of at C least one breed-determinant (BD) gene. The present invention also CC describes: (1) methods for determining the coat colour genotype of a pig Cb y determining; (i) the allele(s) of the alpha melanocyte-stimulating CC hormone receptor (alpha-MSHR) gene; (ii) the amino acid sequence of an CC alpha-MSHR protein at positions associated with coat colour, or the size CC of the protein; (iii) detecting which microsatellites (or other linked CC marker alleles), linked to the alpha-MSHR gene, or particular alleles of it, are present; and (iv) analysing nucleic acid to determine if the KIT CC gene carries a polymorphism associated with the Belt genotype. The CC main method of the invention is applied to samples from fish, birds and CC marmals, especially pigs. Particular applications are confirming stated CC origin of meats; in quality control; for maintaining stock purity, and CC in breeding programmes (to confirm particular crosses). The method CC includes and inexpensively. The process can be made quantitative. The present sequence represents a KIT gene PCR primer from the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Differentiating products from different animal breeds - by the analysis of alleles of breed-determinant genes, at the nucleic or protein level
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 22 BP; 2 A; 4 C; 7 G; 9 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Porcine; wild boar; meishan; pietrain; large white; hampshire; differentiation; breed origin; alpha-MSHR; coat colour; stock I; alpha melanocyte-stimulating hormone receptor; KIT; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAV80714;
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30-MAY-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Evans GJ,
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97GB-0011214.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>.</u>.
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Pred. No. 4:
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                                                                                                                                             Query Match
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                                                                                                                                                                                                                    The invention provides a composition comprising one or more antisense oligonucleotides directed against vascular endothelial growth factor (VEGF) where the antisense oligonucleotides inhibits proliferation of cells exhibiting autocrine VEGF activity at an IC 5 0 concentration of between 0.5-2.5 micro Ma. The antisense oligonucleotides may be directed against VEGF for inhibiting cancer cell proliferation and angiogenesis. Preferably the oligonucleotide AAH23032 (a modified version of AAH22984) is used and may be utilized to treat Kaposi's sarcoma, ovarian cancer, prostrate cancer, pancreatic cancer or melanoma. Sequences AAH23012-023 represent gene-specific primers used in RT-PCR amplification of VEGF
                                                                                                                                                                                                                                                                                                                                                                                            Novel antisense oligonucleotides useful for inhibiting vascular endothelial growth factor expression, angiogenesis and for treating cancer, e.g., Kaposi's sarcoma, ovarian cancer and prostrate cancer
            ABX90509 standard; DNA; 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic
                                                                                                                                                                                   Sequence 23
                                                                                                                                                                                                                                                                                                                                                                     Example 12; Page 56; 105pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GILL/) GILL P S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19-JAN-2000; 2000US-0487023.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19-JAN-2001; 2001WO-US00019.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-JUL-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antisense therapy; RT-PCR; primer; VEGFR-1; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Vascular endothelial growth factor; VEGF; antisense; angiogenesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VEGFR-1 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-SEP-2001
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                                                                                                                                              Similarity
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                                                                                                    CAGCTGGCCAGAGGCATGGAGT 2119
                                                                               CAAGTGGCCAGAGGCATGGAGT 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             iferation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGTGGGAGCTCTTCTCTTTAGG 22
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                                                                                                                              1.3%;
ilarity 90.9%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kaposi's sarcoma;
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                                                                                                                                                                                   G; 4 T; 0 other;
                                                                                                                                            Score 18.8;
Pred. No. 43
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Pred. No. 41;
                                                                                                                                 Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cancer; melanoma; cytostatic;
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RESULT 14
AAA95390
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AC AAA95
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XX 12-FE
XX Rat;
XW Rat;
XW Parki
XX Rattu
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                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                   Query Match
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19-JAN-2001;
30-JAN-1998;
19-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antisense; ss; PCR; VEGF; vascular endothelial growth factor; human; cancer; angiogenesis; neoplastic proliferation; cellular proliferation; primer; RT-PCR; reverse transcriptase PCR.
                                                                                                                                                                                                                                                                                                                                                                                 cellular proliferation and preventing angiogenesis. The present sequence is a reverse transcriptase (RT)-PCR primer for a VEGF or related gene, used to clone the coding region for expression in tumour cell lines. The cell lines were used to test prospective antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a composition comprising an antisense oligonuclectide directed against vascular endothelial growth factor (VEGF). The antisense oligonuclectide is useful for preparing a composition treating cancer, neoplastic proliferation, abnormal
                        Rattus norvegicus
                                                 Rat; Nurr1; tyrosine hydroxylase; catecholamine-related Parkinson's disease; manic depression; schizophrenia; PO
                                                                                                                    12-FEB-2001
                                                                                                                                                                       AAA95390 standard;
                                                                                                                                                                                                                                                                                                                                              Sequence 23 BP; 6 A; 4 C; 9 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 12; Page 19; 54pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  composition for treating cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New composition comprising an antisense oligonucleotide directed against vascular endothelial growth factor, useful for preparing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-246674/25.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gill PS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GILL/)
(MASO/)
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                                                                                                                                                                                                                                                                                         Local Similarity
les 20; Conserv
                                                                                         FGFR coding sequence PCR primer #1.
                                                                                                                                                                                                                                                                 2098 CAGCTGGCCAGAGGCATGGAGT 2119
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; 2001WO-US00019.
; 98US-0016541.
; 2000US-0487023.
                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OD R.
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                                                                                                                   (first entry)
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)01WO-US00019.
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                                                                                                                                                                       DNA;
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Pred. No. 43;
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                                                                                                                                                                                                                                                                                                                   Length 23;
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                                                  PCR primer;
                                                                 disease;
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WO200058451-A1

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AAV60732/c
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention describes the rat Nurr1 coding and protein sequences. The Nurr1 protein is involved in the induction of tyrosine hydroxylase, expression in adult rat-derived hippocampal progenitor cells. The Nurr1 gene and protein can be used in the treatment of catecholamine-related diseases such as Parkinson's disease, manic depression and schizophrenia. They can also be used to induce tyrosine hydroxylase expression and identify tyrosine hydroxylase related deficiencies, which are linked to the same diseases. The present sequence is a PCR primer used in a method to differentiate adult neural progenitor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCR primer; amplification; yeast; UAS; upstream activating sequence; transcription terminator; cell cycle; Upstream Activation Sequence; UAS; promoter; phosphorylation; cyclin; cyclin-dependent kinase; CDK; vector; cyclin kinase inhibitor; CKI; growth; wound healing; cancer therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cell comprising exogenous nucleic acid inducing tyrosine hydroxylase expression useful for treating catecholamine-related diseases such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
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WPI; 1998-251302/22
                                                                                                                                                               27-NOV-1996;
16-OCT-1996;
                                                                                                                                                                                                                                                   16-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                              WO9816660-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Parkinson's disease, manic depression and schizophrenia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (SALK ) SALK INST BIOLOGICAL STUDIES.
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                                                                                                                                                               96US-0031968
96US-0029127
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Pred. No. 38;
1; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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consider the screen for compounds that affect mammalian cell cycle regulatory correteins. The method comprises administering a compound to a cell line, which contains a reporter gene linked to an Upstream Activation Sequence (CAS) and a promoter, where the UAS binds a transcription control factor (TCF) which is regulated through cyclin/cyclin-dependent kinase (CDK) phosphorylation. Also included in the construct is an effector gene providing a gene product to permit normal cyclin/CDK regulation of the reporter gene is then analysed in the cell line, thereby determining whether the compound affects the normal regulation. The method can be used to identify inhibitors and activators of cyclins, CDKs, cyclin/CDK complexes, cyclin kinase can be used for stimulating growth of cepls (as in wound healing), or can be used for stimulating growth of cells (as in wound healing), or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Screening for agents that effect cell cycle regulatory proteins using a cell line that expresses a reporter gene in response to regulation through phosphorylation by a cyclin/CDK system
                                                                                                                                                                                                                                                                                                                                                                                                                                        Primers AAV60731-V60732 were used to PCR amplify codons 1-149 of the wordin-dependent kinase 2 (hCDX2) gene. The amplified product used to generate a fusion protein comprising part of the hCDX2 sequentianked to codons 154-302 of the yeast PHO85 gene. The fusion protein
                                                 regulating excessive cell growth and division
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 70;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              English.
                                                   (as in cancer therapy).
                                                                                                                                                                                                                                                                                                                                                                                                                                                 The fusion protein is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               the hCDK2 sequence
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RESULT 16
AAQ33179/c
                                                                    Matches
                                                                          Query Match
Best Local
                                                  2201
                                   20 CAGACTTTGGACTAGCCAGA 1
                                                                   19;
                                                                          Similarity
                                              CAGACTTTGGACTCGCCAGA 2220
                                                                   Conservative
                                                                          1.3%;
                                                                   0
                                                                           Score 18.4;
Pred. No. 4:
                                                                    Mismatches
                                                                                    B
                                                                                   1;
                                                                   1;
                                                                                 Length
                                                                    Indels
                                                                                     20
                                                                   0
                                                                    Gaps
```

멍 S

Sequence 20

BP; 4 A; 5 C; 5 G; 6 T; 0 other;

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Kinzler KW
Albertsen
                                             (CANC-)
(ICIL )
(UYJO )
(UTAH )
                                                                                                                                                                                                                                                   AAQ33179 standard; DNA;
WPI; 1992-284685/34
                                                                                                                                                                       neoplasm; cancer; oncogene; tumour; growth; detection; diagnosis;
prognosis; treatment; sporadic colorectal carcinomas; ss.
                                                                                                                                                                                                              25-MAR-2003
28-JAN-1993
                                                                                                                                                                                                                                    AAQ33179;
              White RL, Nakamura Y;
                                                                                   16-JAN-1991;
08-AUG-1991;
                                                                                                                           06-AUG-1992.
                                                                                                                                          WO9213103-A1.
                                                                                                                                                                                              PCR primer #3
                                                                                                           16-JAN-1992;
                              ₹
                                             UNIV UTAH.
                                                    UNIV JOHNS HOPKINS
                                                                    CANCER INST
                      Ħ,
                      Vogelstein B,
Carlson ML,
                                                                                                                                                                                                             (updated)
(first entry)
                                                                                                                                                                                              to identify subtle DP2.5 mutations.
                                                                                   91GB-0000963.
91US-0741940.
                                                                                                           92WO-US00376.
                                                                                                                                                                                                                                                    24
                       Anand
Groden
                      ű,¤
                      Hedge PJ,
Joslyn G,
                      Markham AF;
Thliveris
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RESULT 17
AAT95598/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This PCR primer was used to detect subtle mutations in the DP2.5 (2 gene. It was used with AAQ33180. To obtain DNA sequence adjacent to the exons of the gene, sequencing substrate was obtained by inverse PCR amplification of DNAs from two YACS 310D8 and 183H12 that span the deletions. Ligation at low concentration cyclized the restriction enzyme digested YAC DNAs. Oligonucleotides with sequencing tails designed in inverse orientation at intervals along the CDNAs primed PCR amplification from the cyclised templates. Comparison of these DNA sequences with the CDNA sequences placed exon boundaries at the divergence points.

NOTE: The sequence as given in the specification is barely legible. See also AAQ33158-253.

(Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 20; Conserv
         Albertsen H,
Joslyn G, Kir
Vogelstein B,
                                                                                                                        16-JAN-1991;
16-JAN-1991;
16-JAN-1991;
08-AUG-1991;
                                                           (NICA-)
(UYJO)
(UTAH)
(ZENE)
                                                                                                                                                                                                                                                                                                               Human; adenomatous Polyposis coli; APC; diagnosis; prognosis; neoplastic tissue; tumour tissue; tumour repressor; mutation; sporadic colorectal cancer; detection; PCR primer; DP2.5; SSCP; single stranded conformation polymorphism; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Detection of somatic and germ-line alterations of human APC - used to diagnose, treat and study familial adenomatosus polyposis and sporadic colorectal cancer
                                                                                                                                                                                                   12-AUG-1994;
                                                                                                                                                                                                                            15-JUL-1997.
                                                                                                                                                                                                                                                    US5648212-A.
                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                              Primer for SSCP analysis of DP2.5 (APC).
                                                                                                                                                                                                                                                                                                                                                                                                        25-MAR-2003
11-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                             AAT95598;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAT95598 standard; DNA; 24 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 24 BP; 10 A; 3 C; 4 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 8; Table 3; 132pp; English
                                                                                                                                                                          16-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2645 CTTCAGGAGATGATTCTGTTTTT
                                                                                                                                                                                                                                                                             sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23
                                                                        JAPANESE FOUND CANCER UNIV JOHNS HOPKINS. UNIV UTAH.
                                                           ZENECA LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTTCAAGACATGATTCTGTATTT
          Kinzler K, M
B, White RL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
           Anand R, Carre
                                                                                                                                                                                                                                                                                                                                                                                                       (updated)
(first en
                                                                                                                       91GB-0000963.
91GB-0000974.
91GB-0000975.
91US-0741940.
                                                                                                                                                                          91GB-0000962
                                                                                                                                                                                                   94US-0289548.
                                                                                                                                                                                                                                                                                                                                                                                                        entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.3%;
                                   Carlson M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 18.2; DI
Pred. No. 58;
O; Mismatches
                                                                                                 RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2667
                     Groden J,
                       Nakamura
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ۲,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ω
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                     Hedge PJ;
Thliveris A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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RESULT 18
AAV56500/c
ID 56500/c
AAV566
XX AAV56
XX AAV56
XX AAV56
XX AV56
XX Famil
XW Famil
XW Chrom
XW FAP;
XX Homo
XX Homo
XX FAP;
XX FAP;
XX 16-JJP
PR 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     맑
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    . GXEEXWXDDDDDDDDDDDXW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local
                                                                                                                                                                                                                                                                 16-JAN-1991;
16-JAN-1991;
08-AUG-1991;
12-AUG-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present sequence is a primer for the SSCP analysis of DP2.5 (APC), which was used in the development of a novel method of diagnosing or prognosing a human adenomatous Polyposis coli (APC) gene associated neoplastic tissue. The method comprises comparing APC gene coding sequences or mRNA in a non-neoplastic tissue, where a difference indicates an APC gene associated meoplasia of the tumour tissue. APC is a tumour repressor expressed in most normal tissues. APC mutations are found in familial adenomatous polyposis and sporadic colorectal cancer patients. The method enables mutations to be detected to provide an indication of predisposition to
                                        Albertsen H, Anand R, Carlson
Joslyn G, Kinzler K, Markham
Vogelstein B, White RL;
                                                                                                                                              (CANC-)
(UYJO )
(UTAH )
(ZENE )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Familial adenomatous polyposis coli; APC; tumour suppressor; therap
chromosome 5q21; tumourigenesis; retinoblastoma; colorectal tumour;
FAP; Gardner's Syndrome; GS; predisposition; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human DP2.5
WPI; 1998-427100/36
                                                                                                                                                                                                                                                                                                                                                                  16-JAN-1991;
16-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                              25-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21-JUL-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US5783666-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-MAR-2003
23-NOV-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV56500;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAV56500 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 24 BP; 10 A; 3 C; 4 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 8; Columns 31-32; 140pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cancer diagnosis - by detecting mutation(s) in adenomatous polyposis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1997-372053/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (Updated on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2645 CTTCAGGAGATGATTCTGTTTTT 2667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20;
                                                                                                                                         UNIV JOHNS HOPKINS
UNIV UTAH.
ZENECA PHARM.
                                                                                                                                                                                                                        CANCER INST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTTCAAGACATGATTCTGTATTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APC primer #23.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-MAR-2003 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (updated)
(first entry)
                                                                                                                                                                                                                                                                 91GB-0000974.
91GB-0000975.
91US-0741940.
94US-0289548.
                                                                                                                                                                                                                                                                                                                                                                  91GB-0000962.
91GB-0000963.
                                                                                                                                                                                                                                                                                                                                                                                                                                              95US-0452655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1.3%;
                                                                                           Carlson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                correct PR field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 18.2;
Pred. No. 58
                                                                       ΑF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          No. 58;
                                                                       Groden J, 1
Nakamura Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                         Hedge PJ;
, Thliveris
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24;
                                                                         P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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RESULT 19
AAT96213/c
ID AAT962
XX AAT962
XX AAT962
XX 25-MAR
DT 08-APR
XX PITMER
XX HUMMAN;
KW HUMMAN;
KW SSCP;
XX Synthe
OS HOMO 8
XX US5691
XX US5691
XX US5691
XX I6-JAN
PR 16-JAN
PR 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      б
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local
                                                                                                                                                                                                 (CANC-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         adenomatous polyposis (FAP) and Gardner's Syndrome (GS). The protes be used in therapy to replace lack of native functional protein and nucleic acids can be used for gene therapy. The nucleic acids that encode them can also be used as probes and primers in detection of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and
                            WPI; 1998-017712/02
                                                                         Albertsen H, Anand R, Carlson M,
Joslyn G, Kinzler K, Markham AF,
Vogelstein B, White RL;
                                                                                                                                                                                                                                                                                                                                16-JAN-1991;
08-AUG-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                 16-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-NOV-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US5691454-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     neoplastic tissue; t
sporadic colorectal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; adenomatous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Primer for SSCP analysis of DP2.5 (APC).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAT96213 standard; DNA; 24 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 24 BP; 10 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cancers and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            and mutations in this gene have been associated with tumourigenesis in retinoblastoma and colorectal tumours, and especially familial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        adenomatous polyposis coli (APC) protein from clone DP2.5. The gene for the protein is present on human chromosome 5q21 and is also referred to as adenomatous polyposis coli gene. It is a tumour suppressor gene,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAV56477-V56581 are primers used in the isolation of a human familial adenomatous polyposis coli (APC) protein from clone DP2.5. The gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Adenomatous polyposis coli protein cancers associated with mutation(s)
                                                                                                                                                                                                                                                                                                         L2-AUG-1994;
                                                                                                                                                                                                                                                                                                                                                                               L6-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                         .6-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2645 CTTCAGGAGATGATTCTGTTTTT 2667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20;
                                                                                                                                                                                                   IMPERIAL CHEM IND PLC UNIV JOHNS HOPKINS.
                                                                                                                                                                                                                                                       CANCER INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8; Column 31-32; 102pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTTCAAGACATGATTCTGTATTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            predisposition to it.
25-MAR-2003 to correct PR field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (updated)
(first en
                                                                                                                                                                                 UTAH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        stranded conformation polymorphism; ss
                                                                                                                                                                                                                                                                                                      91GB-0000975.
91US-0741940.
94US-0289548.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  95US-0452654.
                                                                                                                                                                                                                                                                                                                                                                               91GB-0000974.
                                                                                                                                                                                                                                                                                                                                                                                                                                 91GB-0000962.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tumour tissue; tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Polyposis coli; APC; diagnosis; prognosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cancer; detection; PCR primer; DP2.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3 C; 4 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 18.2;
Pred. No. 58;

    useful in the treatment
    on human chromosome 5q21

                                                                                                   Groden J,
Nakamura Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          repressor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>س</u>
                                                                                                                             Hedge PJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 24;
                                                                                                   Thliveris A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The protein can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             and the
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RESULT 20
AAA93502/c
ID AAA935
XX AAA935
XX AAA935
XX Human
XX APC ge
KW Famili
KW Sporad
KW Sporad
KW Geneti
XX Homo s
XX US6114
XX I6-JAL
PR 16-JAL
PR 16-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
                                                                             Carlson M, G
Albertsen H,
Hedge PJ;
                                                                                                                                                                                                                                                                                                                       16-JAN-1991;
16-JAN-1991;
16-JAN-1991;
08-AUG-1991;
12-AUG-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (APC), which was used in the development of a novel method of diagnosing or prognosing a human adenomatous Polyposis coli (APC) gene associated neoplastic tissue. The method comprises comparing APC gene coding sequences or mRNA in a tumour tissue, to APC gene coding sequences or mRNA in a non-neoplastic tissue, where a difference indicates an APC gene associated neoplasia of the tumour tissue. APC is a tumour repressor expressed in most normal tissues. APC mutations are found in familial adenomatous polyposis and sporadic colorectal cancer patients. The method enables mutations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APC gene; Adenomatous Polyposis Coli gene; human; chromosome 5q21; familial adenomatous polyposis; FAP locus; Gardner's syndrome; GS; sporadic tumour; adenoma; carcinoma; cancer; lung; breast; colon; rebladder; liver; sarcoma; stomach; prostate; leukaemia; lymphoma; tumour suppressor; anti-APC antibody; detection; diagnosis; prognosis genetic predisposition; drug screening; DP2.5; exon; PCR primer; ss.
                                                                                                                                                                                                                 (UYJO)
(UYAH)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 24 BP; 10 A; 3 C; 4 G; 7 T; 0 other;
                                 WPI; 2000-565003/52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human APC (DP2.5) gene exon 2 PCR primer 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAA93502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Antibodies to normal and mutant adenomatous polyposis coli proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                            16-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US6114124-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                to be detected to provide an indication of predisposition to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 8; Columns 25-26; 107pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (Updated on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2645 CTTCAGGAGATGATTCTGTTTTT 2667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     esent sequence is a primer for the SSCP analysis of which was used in the development of a novel methoc
                                                                                                                                                                                                              IMPERIAL CHEM IND PLC. UNIV JOHNS HOPKINS. UNIV UTAH.
                                                                                                                                                                                           CANCER INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       for detecting genetic predisposition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTTCAAGACATGATTCTGTATTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-MAR-2003 to correct PR field.)
                                                                                                           Groden J,
White RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                             94US-0289548
                                                                                                                                                                                                                                                                                                                                                     91GB-0000975
91US-0741940
                                                                                                                                                                                                                                                                                                                                                                                                          91GB-0000974
                                                                                                                                                                                                                                                                                                                                                                                                                                   91GB-0000963
                                                                                                                                                                                                                                                                                                                                                                                                                                                            91GB-0000962.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                95US-0450582.
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                                                                                                        Joslyn G, Kin:
,, Thliveris A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 18.2;
Pred. No. 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                    Kinzler K, Markham AF,
                                                                                                           Nakamura Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                58;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ő
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                           Vogelstein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DP2.5
                                                                                                           Anand R;
tein B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     prognosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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RESULT 21
ABS67171/c
ID ABS67171 standard; DNA; 24 BE
XX
AC ABS67171;
XX
DT 29-NOV-2002 (first entry)
XX
DF 29-NOV-2002 (first entry)
XX
C ABS67171;
XX
C ABS617
XX
C ABS67171;
XX
C ABS617
XX
C ABS67171;
XX
C ABS67171;
XX
C ABS617
X
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CC Polyposis Coli (APC) protein in a sample. The method involves contacting the sample with antibodies which specifically binds to the CC 2843 amino acid form of the human APC protein, or to a mutant APC CC grotesin, and detecting an APC-antibody complex. Mutations in the APC CC gene play a role in tumorigenesis, indicating that it is a tumour CC suppressor gene. It is located on chromosome 5q21, which corresponds to the FAP (familial adenomatous polyposis) locus. FAP is an autosomal CC dominant inherited disease in which affected individuals develop CC hundreds to thousands of adenomatous polyps in the colon and rectum, CC some of which progress to mealignancy. The FAP locus is often found to be deleted in sporadic (i.e., non-familial) adenomas and carcinomas, and CC chromosome 5q deletions have also been observed in tumours of the lung, CC breast, colon, rectum, bladder, liver, sarcomas, stomach, and prostate, and in leukaemias and lymphomas. Although the FAP locus contains CC several other genes such as FER, TB1, TB2, and MCC, it is thought that the threating in foetal tissue, placental tissue, ammiotic fluid, blood, CC serum or a tumours emple. The method is useful for detecting APC protein and its cuntant forms in foetal tissue, placental tissue, ammiotic fluid, blood, CC serum or a tumour sample. The method is useful for disgnosing or CC cancer, for detecting germline and somatic alteration of wild-type APC genes, and for testing therapeutic agents for the ability to suppress CC cuncer. FOR primers used in exemplifications of the invention to CC amplify exonic regions (or exon fragments) of the human APC gene (also referred to as the DP2.5 gene in the specification).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Adenomatous polyposis coli; APC; human; neoplastic tissue; mutation detection; tumour; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Detecting Adenomatous Polyposis Coli (APC) protein in a sample for diagnosing cancers, involves contacting the sample with antibodies that specifically bind to APC protein and detecting the complex formed -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a novel method for detecting Adenomatous Polyposis Coli (APC) protein in a sample. The method involves
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2645
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTTCAGGAGATGATTCTGTTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTTCAAGACATGATTCTGTATTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
          91GB-000962.
91GB-0000973.
91GB-0000974.
91GB-0000975.
91US-0741940.
94US-0289548.
                                                                                                                                                                                                                                                  95US-0449731.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              conformational polymorphism; primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; 3 C; 4 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              primer #23.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 18.2;
Pred. No. 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2667
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RESULT 22
AAV60725/c
ID AAV6077
XX AAV6077
XX AAV607
XX AAV607
XX Primer
XX Primer
XX PCR pr
KW Prombe
KW Cyclin
XX Synthe
OS Homo a
XX WO9816
XX WO9816
XX 23-APR
XX 27-NOV
PR 16-OCT
XX 27-NOV
PR 16-OCT
XX ART
XX BITT-
XX BITTER
XX WPI; 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This invention relates to a novel method to aid in the diagnosis or prognosis of a neeplastic tissue of a human. The method involves detecting somatic alteration of wild-type adenomatous polyposis coli) protein in a tumour tissue isolated from a human (the alteration indicating neoplasia of the tissue). The method of the invention is useful in diagnosis or prognosis of a neoplastic tissue of a human the method is useful in detection of genetic predisposition to cancer. The present sequence represents a DNA sequence used in the method of the invention of the inv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Albertsen F
Kinzler K,
                                                                                                                                                                                                                                                                                                                                                                                                                               PCR primer; amplification; yeast; UAS; upstream activating sequence; transcription terminator; cell cycle; Upstream Activation Sequence; promoter; phosphorylation; cyclin; cyclin-dependent kinase; CDK; vec cyclin kinase inhibitor; CKI; growth; wound healing; cancer therapy;
                                                                                                                                                          27-NOV-1996;
16-OCT-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Method to aid in the diagnosis/prognosis of neoplastic tissues in humans, by detecting somatic alteration of wild-type APC protein in tumor tissue isolated from human, the alteration indicating neoplasia
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(UTAH)
(NICA-)
(ZENE)
                                                                                                                                                                                                                               16-OCT-1997;
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                                                                                                             (BITT-) BITTECH
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ZENECA LTD.
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96US-0029127
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CDK2 codons 1-151.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C; 4
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Pred. No. 58;
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, Thliveris A,
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stein B;
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WPI; 1998-251302/22

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RESULT 23
AAZ18094/c
ID AAZ18094 standard; DNA; 21 BP
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The method can be used to identify inhibitors and activators of mammalian cell cycle regulatory proteins, especially inhibitors and activators of cyclins, CDKs, cyclin/CDK complexes, cyclin kinase inhibitors (CKIs), and cyclin/CDK/CKI complexes. The identified agents can be used for stimulating growth of cells (as in wound healing), or regulating excessive cell growth and division (as in cancer therapy).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Primers AAV60724-V60725 were used to PCR amplify codons 1-151 of the human cyclin-dependent kinase 2 (hCDR2). The amplified product was used to generate a fusion protein comprising part of the hCDR2 sequence linked to codons 155-302 of the yeast PHO85 gene. The fusion protein is used to screen for compounds that affect mammalian cell cycle regulatory used to screen for compounds that affect mammalian cell cycle regulatory.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 used to screen for compounds that affect mammalian cell cycle regulatory proteins. The method comprises administering a compound to a cell line, which contains a reporter gene linked to an Upstream Activation Sequence (UAS) and a promoter, where the UAS binds a transcription control factor (TCF) which is regulated through cyclin/cyclin-dependent kinase (CDK) phosphorylation. Also included in the construct is an effector gene providing a gene product to permit normal cyclin/DK regulation of the TCP. Expression of the reporter gene is then analysed in the cell line, thereby determining whether the compound affects the normal regulation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Screening for agents that effect cell cycle regulatory proteins using a cell line that expresses a reporter gene in response to regulation through phosphorylation by a cyclin/CDK system
Identifying and characterizing cells by comparing the pattern of gene expression in a selected gene family
                                                                                                                                                                                                                                                                                                                                                                                                                                         Genetic proximity; gene expression; cell characterisation; homeobox gene; genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR;
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                                                            WPI; 1999-419113/35.
P-PSDB; AAY14629.
                                                                                                                                                                                     16-OCT-1998;
29-DEC-1997;
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                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                       primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                      kinase gene; protein phosphatase; P450; steroid receptor; cadherin;
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                                                                                                                                                    (GENE-) GENENA
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19; Conserv
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97IL-0122793.
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Pred. No. 55;
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Best Local
                                                  Identifying and characterizing cells by comparing the pattern gene expression in a selected gene family
                                                                                                                                                                                                                                                                                                                                                                                                                                             Genetic proximity; gene expression; cell characterisation; homeobox gene; genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR; kinase gene; protein phosphatase; P450; steroid receptor; cadherin;
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              Claim 4; Page 42; 102pp; English
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                                                                                                    WPI; 1999-419113/35.
P-PSDB; AAY14637.
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29-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                  primer; ss.
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                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
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                                                                                                                                                                                        (GENE-) GENENA
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97IL-0122793
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Pred. No. 5
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RESULT 25
AAZ18110/c
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            transformed. They can be used for detecting a selected genetic defect in an individual, e.g. a fetus. They can also be used for determining the effect of a selected treatment on a test cell. They can also be used for obtaining cells capable of expressing an homeobox related desired property. The method uses reverse transcriptase polymerase chain reaction (RT-PCR) for determining the pattern of gene expression in a selected gene family. Sequences AAZ17803-Z18342 represent primers that can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox genes, kinase genes, protein phosphatase genes, P450 enzyme genes, steroid receptor superfamily genes or cadherin superfamily genes.
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                                                                                                                                                                                                                                                                                                                                       16-OCT-1998;
29-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Genetic proximity; gene expression; cell characterisation; homeobox gene; genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR; kinase gene; protein phosphatase; P450; steroid receptor; cadherin;
                                                                                                                                         WPI; 1999-419113/35.
P-PSDB; AAY14645.
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                                                                            Identifying and characterizing cells by comparing the pattern
                                                                                                                                                                                                                                                                                  (GENE-) GENENA
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                                                    expression in a selected
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
42;
                                                                                                                                                                                                                                                                                                                                    98IL-0126627.
97IL-0122793.
                                                                                                                                                                                                                                                                                                                                                                                                                         98WO-IL00625
102pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        primer.
English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 17.8;
Pred. No. 59
                                                       gene family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21
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The invention provides a new method for identifying and characterising cells. The method for determining the genetic proximity of a first cel and a second cell comprises: (a) obtaining the first cell and the second cell comprises:

cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell the pattern of expression of genes in a selected gene family; and (c) calculating a The invention provides a new method for identifying and characterising cells. The method for determining the genetic proximity of a first cell and the second a second cell comprises: (a) obtaining the first cell and the second

Claim 4; Page 43; 102pp; English.

proximity index using a specified

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RESULT 26
AZZ18118/c
ID AAZ181
XX AZZ181
XX AZZ181
XX AZZ181
XX Geneti
XX Primer
XX W09934
XX W09934
XX O8-JUL
XX 28-DEC
XX Primer
XX 16-OCT
PR 29-DEC
XX (GENE-
XX (G
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ,ភពពិតិពិតិពិតិពិតិពិតិពិតិពិតិនិង្គ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity
Matches 19; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of expression of genes in a selected gene family; and (c) calculating a proximity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its genetic status, whether it carries a genetic defect, or whether it is transformed. They can be used for detecting a selected genetic defect in an individual, e.g. a fetus. They can also be used for determining the effect of a selected treatment on a test cell. They can also be used for obtaining cells capable of expressing an homeobox related desired property. The method uses reverse transcriptuse polymerase chain reaction (RT-PCR) for determining the pattern of gene expression in a selected gene family. Sequences AAZ17803-Z18342 represent primers that can be used in the RT-PCR reactions to determine the pattern of gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Genetic proximity; gene expression; cell characterisation; homeobox gene; genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR; kinase gene; protein phosphatase; P450; steroid receptor; cadherin;
                                                                                                                                                                                                                                                                                                                                                                        P-PSDB; AAY14653.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-OCT-1998;
29-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     expression. The gene family can be selected from a set of homeobox kinase genes, protein phosphatase genes, P450 enzyme genes, steroid receptor superfamily genes or cadherin superfamily genes.
                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1999-419113/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Vider B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 08-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO9934016-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PTK 14 gene specific primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAZ18118 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 21 BP; 7 A; 8 C; 3 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cell; (b) determining in the first
                                                                                                                                                                                                                                                                            Identifying and characterizing cells by comparing the gene expression in a selected gene family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (GENE-) GENENA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2323 AGTGATGTCTGGTCCTTCGGG 2343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGTGATGTCTGGTCCTATGGG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LTD.
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97IL-0122793.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 17.8;
Pred. No. 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cell and the second cell the pattern
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                            pattern
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RESULT 27
AAZ18216/c
ID AAZ18216;
XX
AC AAZ18216;
XX
AC AAZ18216;
XX
DT 11-OCT-1999 (first entry)
XX
DE Tyrosine kinase gene specific
XX
Genetic proximity; gene expre
XX
DE Tyrosine kinase gene specific
XX
Genetic defect; reverse trans
XX
Genetic proximity; gene expre
XX
W primer; ss.
XX
W primer; ss.
XX
OS Synthetic.
OS Homo sapiens.
XX
PN W09934016-A2.
XX
PN W09934016-A2.
XX
PN W09934016-B;
XX
PN W09934016-B;
XX
PN W09934016-B;
XX
PN W09934016-B;
XX
PN W09934016-A2.
XX
PN W099340
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       The invention provides a new method for identifying and characterising cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell the pattern of expression of genes in a selected gene family; and (c) calculating a proximity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its genetic status, whether it carries a genetic defect, or whether it is transformed. They can be used for detecting a selected genetic defect in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying and characterizing cells by gene expression in a selected gene fami
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tyrosine kinase gene specific primer 409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21 BP; 7 A; 8 C; 3 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     receptor superfamily genes or cadherin superfamily genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             kinase genes, protein phosphatase genes, P450 enzyme genes, steroid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2323 AGTGATGTCTGGTCCTTCGGG 2343
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       proximity; gene expression; cell characterisation; homeobox gene; defect; reverse transcriptase polymerase chain reaction; RT-PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGTGATGTCTGGTCCTATGGG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein phosphatase; P450; steroid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98IL-0126627.
97IL-0122793.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98WO-IL00625
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                                                                                                                                                                                                                                                                                                                                                                                                     English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ВÞ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                comparing
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pattern
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2198 TAGCAGACTTTGGACTCGC

2216

Matches Query Match Best Local

18;

Conservative

0,

Mismatches

1;

Indels

0

Gaps

0

DB 1;

Length 19;

Similarity

1.2%;

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RESULT 28
AAA82640
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              an individual, e.g. a fetus. They can also be used for determining the effect of a selected treatment on a test cell. They can also be used for obtaining cells capable of expressing an homeobox related desired property. The method uses reverse transcriptase polymerase chain reaction (RT-PCR) for determining the pattern of gene expression in a selected gene family. Sequences AZI7803-ZI8342 represent primers that can be used in the RT-PCR reactions to determine the pattern of gene
                                                                                            The present invention relates to a hairpin or hammerhead ribozyme, designed to cleave RNA encoding a cyclin or cell-cycle dependent k other than cell-cycle dependent kname than cell-cycle dependent kname than cell-cycle dependent kname than cell-cycle graphiton sites are given in Representative examples of ribozyme recognition sites are given in AAA82415 to AAA86787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells.
                                        Sequence 19
                                                                 The ribozyme is resistant to endon efficient in restenosis treatment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ribozyme; hairpin; hammerhead; gene therapy; vasotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cdk2 ribozyme binding site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             04-DEC-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAA82640;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       kinase genes, protein phosphatase genes, P450 receptor superfamily genes or cadherin superfa
                                                                                                                                                                                                    Disclosure;
                                                                                                                                                                                                                                           New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves
                                                                                                                                                                                                                                                                                        WPI; 2000-412314/35.
                                                                                                                                                                                                                                                                                                                   Tritz R,
                                                                                                                                                                                                                                                                                                                                                                            04-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                        06-DEC-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200032765-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mammalia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       restenosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAA82640 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  expression. The gene family can be selected from a set of homeobox genes
                                                                                                                                                                                                                                                                                                                                                 (IMMU-) IMMUSOL INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local
                                                                                                                                                                                                                               encoding a cyclin
A and Cyclin B1 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2323
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19; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGCGATGTGTGGTCCTTCGGG 1
                                                                                                                                                                                                                                                                                                                   Welch PJ,
                                                                                                                                                                                                  Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         88
                                         BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                   is resistant to endonuclease activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
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                                         4 C;
                                                                                                                                                                                                 109pp; English.
                                                                                                                                                                                                                                                                                                                    Barber JR,
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Score 17.4;
Pred. No. 56
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                                         5 T;
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                                                                                                                                                                                                                                                                                                                    Robbins JM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   No.
                                         0
                                         other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   55
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
recognition site; target; ribozyme binding site; eye disease; vulnera proliferative disease; skin disease; psoriasis; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to a hairpin or hammerhead ribozyme, designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.

Representative examples of ribozyme recognition sites are given in AAA82415 to AAA86787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells. The ribozyme is resistant to endonuclease activity and hence is
                                                                                    Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;
                                                                                                                                          Cell-cycle dependent kinase cdk2 ribozyme binding site
                                                                                                                                                                                                                                                                                                           AAH57802 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New hairpin and hammerhead ribozyme RNA encoding a cyclin or cell-cycle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tritz R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     04-DEC-1998;
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                                                                                                                                                                                                   10-SEP-2001
                                                                                                                                                                                                                                                        AAH57802
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RNA encoding a cycl
PCNA and Cyclin B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2000-412314/35.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mammalia
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ribozyme; hairpin; hammerhead; gene therapy; vasotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAA82641;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2199 AGCAGACTTTGGACTCGCC 2217
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 5 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       restenosis treatment.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.2%;
94.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5 C; 5 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Barber
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                                                                                                                                                                                                                                                                                                           ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 17.4;
Pred. No. 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 for inhibiting restenosis, of dependent kinase other than
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                                                        vulnerary;
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RESULT 31
AAH57803
SXEXEXEX B
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                                                                                                                                                                                                                                                                                                                                                                                                                        cc dependent kinnse, growth factor or a reductase, or administering a cc nucleic acid molecule (II) comprising a promoter operably linked to a cc nucleic acid segment encoding (I). (I) can have antipsoriatic, cc dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling, cc ophthalmological, vulnerary, keratolytic and virucide activities, and cc cleaves RNA encoding cytokine involved in inflammation. (I) can be used cc in gene therapy. (I) and (II) are useful for treating proliferative skin diseases such as psoriasis, atopic dermattitis, actinic keratosis, cc squamous or basal cell carcinoma and viral or seborrheic wart. They can calso be used for treating proliferative eye diseases such as diabetic retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of prematurity and retinal detachment, and for treating and preventing scarring such as keloid, adhesion and hypertrophic or hypertrophic burn c secar. AAH57577 to AAH62099 represent sequences used in the
                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                         Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Treating proliferative skin or eye diseases and scarring, ribozymes that cleave RNA encoding cytokines involved in matrix metalloproteinases, growth factors and cell-cycle of matrix metalloproteinases.
                                                                                                                                            AAH57803
                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention describes a method for treating a proliferative skin or eye disease and scarring. The method involves administering a ribozyme (I) which cleaves RNA encoding a cytokine involved in inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                matrix metalloproteinase; growth factor; reductase; scarring; cytostat: antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide; antisickling; ophthalmological; keratolytic; gene therapy; viral wart; atopic dermatitis; actinic keratosis; squamous cell carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                               exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 1; Page 88; 408pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  kinases
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  26-OCT-1999;
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                                                                                                                                                                                                                                                                                                                         Similarity
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                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                            DNA; 19
                                                                                                                                                                                                                                                                                                                       1.2%;
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Pred. No. 5
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                                                                                                                                                                                                                                                                                                       Gaps
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Cell-cycle dependent kinase cdk2 ribozyme binding site SEQ ID NO:227

Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;

10-SEP-2001 AAH57803;

(first entry)

Human NOVX forward primer Ag3477.

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RESULT 32
ABS78766
ID ABS78
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AC ABS78
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DT 16-DE
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                                                                                                                                                                                                                                                                                                                                                                       ribozyme (I) which cleaves RNA encoding a cytokine involved in inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle dependent kinase, growth factor or a reductase, or administering a cycleic acid molecule (II) comprising a promoter operably linked to a nucleic acid molecule (II) comprising a promoter operably linked to a cycleic acid segment encoding (I). (I) can have antipsoriatic, antiselopriatic, and companies and cyclopriatic and virucide activities, and cleaves RNA encoding cytokine involved in inflammation. (I) can be used in gene therapy. (I) and (II) are useful for treating proliferative shind diseases such as psoriasis, atopic dermatitis, actinic keratosis, squamous or basal cell carcinoma and viral or seborrheic wart. They can also be used for treating particular treating and preventing creatinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of prematurity and retinal detachment, and for treating and preventing creating such as keloid, adhesion and hypertrophic or hypertrophic burn scar. AAH57577 to AAH62099 represent sequences used in the
                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                            Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         proliferative disease; skin disease; psoriasis; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP; matrix metalloproteinase; growth factor; reductase; scarring; cytostati antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide; antisickling; ophthalmological; keratolytic; gene therapy; viral wart; atopic dermatitis; actinic keratosis; squamous cell carcinoma; basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Treating proliferative skin or eye diseases and scarring, using ribozymes that cleave RNA encoding cytokines involved in inflammation, matrix metalloproteinases, growth factors and cell-cycle dependent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo
                       16-DEC-2002
                                                               ABS78766;
                                                                                                    ABS78766 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                     Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1; Page 88; 408pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Robbins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (IMMU-) IMMUSOL INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-OCT-2000; 2000WO-US29500
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sickle cell retinopathy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    recognition site; target; ribozyme binding site; eye disease; vulnerary;
                                                                                                                                                                                                                                                  2199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2001-300427/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sapiens
                                                                                                                                                                                                            ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                eye disease
                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ent invention describes a method for treating a proliferative eye disease and scarring. The method involves administering a (I) which cleaves RNA encoding a cytokine involved in
                                                                                                                                                                                                                                                  AGCAGACTTTGGACTCGCC 2217
                                                                                                                                                                                                          AGCAGACTTTGGACTAGCC 19
                                                                                                                                                                                                                                                                                                                                                                       BP; 5
                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tritz R
                       (first
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                                                                                                                                                                                                                                                                                                                                                                       A; 5 C; 5 G; 4 T; 0 other;
                       entry)
                                                                                                                                                                                                                                                                                                       1.2%;
                                                                                                        22 BP
                                                                                                                                                                                                                                                                                  0;
                                                                                                                                                                                                                                                                                                            Score 17.4;
Pred. No. 56;
                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                               BB
                                                                                                                                                                                                                                                                                                                               ۲,
                                                                                                                                                                                                                                                                                        ;
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22-MAR-2001 23-MAR-2001 26-MAR-2001 27-MAR-2001

2001US-277833P. 2001US-278152P.

2001US-277791P. 2001US-277338P.

20-MAR-2001 21-MAR-2001

20-MAR-2001;

28-MAR-2001; 30-MAR-2001; 02-APR-2001; 02-MAY-2001;

2001US-278894P. 2001US-279036P. 2001US-279344P. 2001US-280233P. 2001US-280802P.

2001US-288148P. 2001US-294821P. 2001US-335302P. 2001US-338375P.

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Hodgkin disease; Von Hippel-Lindau syndrome; Alzheimer's disease; stroke tuberous sclerosis; hypercalcaemia; Parkinson's disease; depression; Huntington's disease; cerebral palsy; epilepsy; Lesch-Nyhan syndrome; multiple sclerosis; ataxia-telangiectasia; leukodystrophy; anxiety; pain; obesity; Crohn's disease; osteoporosis; inflammatory bowel disease; afterosclerosis; hypertension; scleroderma; haemophilia; diabetes; pancreatitis; autoimmune disease; asthma, arthritis; immunodeficiency; HIV; viral infection; neurogenesis; bacterial infection; parasitic infection; graft-versus-host disease; cell differentiation; cell proliferation; haematopoiesis; wound healing; cell proliferation; haematopoiesis; wound healing;
                                                                                                                                                                                         08-MAR-2001;
09-MAR-2001;
                              20-MAR-2001
                                                                                              13-MAR-2001
13-MAR-2001
                                                                                                                                                                                                                                                                                              08-MAR-2002;
                                                                                                                                                                                                                                                                                                                                                           19-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens.
                                                                                                                                                              12-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NOVX; human disease; NOVX-associated disorder;
                                                                                                                                                                                                                                                                                              2002WO-US07283.
2001US-277239P.
2001US-277327P.
                                                                   2001US-276000P.
                                                                                                                                2001US-275579P.
                                                                                                                                                              2001US-274849P.
2001US-275235P.
                                                                                                                                                                                                                              2001US-274281P
                                                                                                 2001US-275601P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cancer; addiction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        disease;
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CURAGEN CORP

Gangolli Spytek KA, Zerhusen BD, Vernet CA, Patturajan M, Taupier RJ; Tchernev VT, I n M, Gusev VY, Malyankar UM, Kekuda R, Pena CEA, Gerlach VL, Zhong Li L;

WPI; 2002-713508/77.

New NOVX polypeptides and polynucleotides, useful for preventing, diagnosing or treating NOVX-associated disorders, e.g. diabetes, multiple sclerosis, atherosclerosis, cancer, infections, osteopor Parkinson's disease osteoporosis

Example C; Page 200; 266pp; English.

syndrome, Alzheimer's disease, stroke, tuberous sclerosis, hypercalcaemia, Parkinson's disease, Huntington's disease, cerebral palsy, epilepsy, Lesch-Nyhan syndrome, multiple sclerosis, ataxiatelangiectasia, leukodystrophies, addiction, anxiety, depression, pain, obesity, Crohn's disease, osteoporosis, inflammatory bowel disease, The present invention relates to a new polypeptide (NOVX). The NOVX polypeptide, nucleic acid and antibody are useful in the manufacture of a medicament for treating a syndrome associated with a human disease, preferably a NOVX-associated disorder. The NOVX nucleic acids, polypeptides and antibodies are useful for treating, preventing or polypeptides and antibodies are useful for treating, preventing or polypeptides are useful for treating, preventing or polypeptides are useful for treating. inflammatory bowel disease, atherosclerosis, hypertension

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Query Match
Best Local S
Matches 19
                   The invention provides a new method for identifying and characterising cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell the pattern of expression of genes in a selected gene family; and (c) calculating a proximity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its genetic status, whether it carries a genetic defect, or whether it is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Genetic
genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    infections, or graft-versus-host disease. The nucleic acids and polypeptides may also be used as targets for the identification of small molecules that modulate or inhibit e.g. neurogenesis, cell differentiation, cell proliferation, haematopoiesis, wound healing and angiogenesis, in gene therapy, in generation of antibodies that bind immunospecifically to NOVX substances for use in therapeutic or diagnostic methods. The nucleic acids are further used as hybridisation probes, in chromosome mapping, tissue typing, preventive medicine, and pharmacogenomics. The present nucleic acid sequence represents a PCR primer that was used in the methods of the invention for amplification
                                                                                                                                                                                                                                         Claim 4;
                                                                                                                                                                                                                                                                                     Identifying and characterizing cells by gene expression in a selected gene family
                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1999-419113/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (GENE-) GENENA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-DEC-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   primer; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       kinase gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PTK 9 gene
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAZ18107 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       asthma, arthritis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          human NOVX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1886 TGAAGATGATTGGGAAACACAA 1907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   _
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  proximity; gene expression; cell characterisation; homeobox gene;
defect; reverse transcriptase polymerase chain reaction; RT-PCR;
gene; protein phosphatase; P450; steroid receptor; cadherin;
                                                                                                                                                                                                                                                                                                                                                            AAY14642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22
                                                                                                                                                                                                                                           Page 42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGAACATGTTTGGAAAACACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           98IL-0126627.
97IL-0122793.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98WO-IL00625.
                                                                                                                                                                                                                                      102pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            immunodeficiencies, HIV, viral, bacterial or transcribed in the result of the incleic acids and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.2%;
86.4%;
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                                                                                                                                                                                                                                         English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          diabetes, pancreatitis, autoimmune disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4. G;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <u>.</u>.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 17.2;
Pred. No. 74;
for detecting a selected genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ij,
                                                                                                                                                                                                                                                                                          family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0 other
                                                                                                                                                                                                                                                                                                           comparing
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 22;
                                                                                                                                                                                                                                                                                                             the
                                                                                                                                                                                                                                                                                                             pattern
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                                          an individual, e.g. a fetus. They can also be used for determining the effect of a selected treatment on a test cell. They can also be used fo obtaining cells capable of expressing an homeobox related desired property. The method uses reverse transcriptase polymerase chain reaction (RT-PCR) for determining the pattern of gene expression in a selected gene family. Sequences AAZ1/803-Z18342 represent primers that can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox gene kinase genes, protein phosphatase genes, P450 enzyme genes, steroid receptor superfamily genes or cadherin superfamily genes.
                                                                                                                   genes,
                                                                                                                                                                                                                                                                                                for
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S
             Matches
                   Query Match
Best Local
2194 AAAATAGCAGACTTTGG
             17;
                    Similarity
                                      20
                                      BP;
             Conservative
                                      7
                                      P
                   100.0%;
                                      3
C;
                          1.2%;
                                      4
G;
 2210
             0;
                   Score 17;
Pred. No.
                                      6 T;
             Mismatches
                                      0
                                      other;
                    DB 1;
             0,
                          Length
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             Gaps
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AAAATAGCAGACTTTGG

17

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RESULT 34
AAZ18109
ID AAZ18
PTK 10 gene
                     11-OCT-1999
                                          AAZ18109;
                                                              AAZ18109 standard; DNA;
 specific primer.
                    (first entry)
                                                              20
                                                              ВÞ
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Genetic genetic primer; kinase gene; proximity; gene expression; cell characterisation; homeobox gene; defect; reverse transcriptase polymerase chain reaction; RT-PCR; gene; protein phosphatase; P450; steroid receptor; cadherin; 88.

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08-JUL-1999
                           WO9934016-A2
                             Synthetic
                            sapiens.
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16-OCT-1998; 29-DEC-1997; 28-DEC-1998; (GENE-) GENENA LTD. 98IL-0126627. 97IL-0122793. 98WO-IL00625.

Identifying and characterizing cells by comparing the pattern gene expression in a selected gene family P-PSDB; AAY14644. Vider B 1999-419113/35.

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Claim 4; Page 42; 102pp; English.

The invention provides a new method for identifying and characterising cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell; (b) determining in the first cell and the second cell the pattern of expression of genes in a selected gene family; and (c) calculating a proximity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its genetic status, whether it carries a genetic defect, or whether it is transformed. They can be used for detecting a selected genetic defect in an individual, e.g. a fetus. They can also be used for determining the effect of a selected treatment on a test cell. They can also be used for expressing

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ARESULT 35
ARAZIBALL
ID ARZIB
XX AZIB
AC AAZIB
AC GENE
KW Genet
KW Genet
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KW Genet
KW FIME
OS Synth
OS Synth
OS Synth
OS Synth
OS Synth
OS Synth
OC BAZE
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XX PFF 28-DE
XX WPI;
DR WPI;
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DR WPI;
DR WPI;
DR WPI;
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CC Cells
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                                                                                                                                                 The invention provides a new method for identifying and characterising cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell; (b) determining in the first cell and the second cell the pattern of expression of genes in a selected gene family; and (c) calculating a proximity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its genetic status, whether it carries a genetic defect, or whether it is transformed. They can be used for detecting a selected genetic defect in an individual, e.g. a fetus. They can also be used for determining the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               kinase genes,
receptor supe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  property. The method uses reverse transcriptase polymerase chain reaction (RT-PCR) for determining the pattern of gene expression in a selected gene family. Sequences AAZ17803-Z18342 represent primers that can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox genes, kinase genes, protein phosphatase genes, P450 enzyme genes, steroid receptor superfamily genes or cadherin superfamily genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Genetic proximity; gene expression; cell characterisation; homeobox gene, genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR; kinse gene; protein phosphatase; P450; steroid receptor; cadherin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1999-419113/35
P-PSDB; AAY14646.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20
                       effect of a selected treatment on a test cell. They can also be used for obtaining cells capable of expressing an homeobox related desired property. The method uses reverse transcriptase polymerase chain reaction (RT-PCR) for determining the pattern of gene expression in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 4; Page 42; 102pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying and characterizing cells by comparing the pattern gene expression in a selected gene family
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29-DEC-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAZ18111 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GENE-) GENENA
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97IL-0122793.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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            The invention provides a new method for identifying and characterising CC cells. The method for determining the genetic proximity of a first cell CC and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell the pattern CC of expression of genes in a selected gene family; and (c) calculating a CC proximity index using a specified formula. The methods can be used for CC characterising cells, e.g. for determining the origin of a cell, its CC genetic status, whether it carries a genetic defect, or whether it is CC transformed. They can be used for detecting a selected genetic defect in CC an individual, e.g. a fetus. They can also be used for determining the CC effect of a selected treatment on a test cell. They can also be used for cobtaining cells capable of expressing an homeobox related desired CC property. The method uses reverse transcriptase polymerase chain CC reaction (RT-PCR) for determining the pattern of gene expression in a CC can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox genes, transic monocompanies.
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gene expression in a selected gene family
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Pred. No.
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kinase genes, protein phosphatase genes,

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RESULT 37
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                                                                                        The invention provides a new method for identifying and characterising CC cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell; (b) determining in the first cell and the second cell the pattern of expression of genes in a selected gene family; and (c) calculating a proximity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its compared to the continuous cell in the cell in cell in the cell in cell in the cell in cell in the cell in cell in the cell in cell in the cell in cell in the c
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                                                             receptor superfamily genes or cadherin superfamily genes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying and characterizing cells by comparing the pattern gene expression in a selected gene family
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29-DEC-1997;
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97IL-0122793.
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                         The invention provides a new method for identifying and characterising CC cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second CC and a second cell comprises: (a) obtaining the first cell and the second CC cell; (b) determining in the first cell and the second cell the pattern of expression of genes in a selected gene family; and (c) calculating a CC proximity index using a specified formula. The methods can be used for CC characterising cells, e.g. for determining the origin of a cell, its CC genetic status, whether it carries a genetic defect, or whether it is CC transformed. They can be used for detecting a selected genetic defect in CC transformed. They can be used for detecting a selected for determining the cell. They can also be used for CC containing cells capable of expressing an homeobox related desired CC containing cells capable of expressing an homeobox related desired CC property. The method uses reverse transcriptase polymerase chain CC selected gene family. Sequences AAZ17803-Z18342 represent primers that CC can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox genes, kinase genes, protein phosphatase genes, P450 enzyme genes, steroid CC receptor superfamily genes or cadherin superfamily genes.
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Best Local S
Matches 17
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29-DEC-1997;
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                                   Conservative
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97IL-0122793.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98WO-IL00625.
                                                                                                    A; 3 C; 4
                                               1.2%; Score 17;
100.0%; Pred. No.
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                                   <u>,,</u>
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                                                                                                      G; 6 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                 Mismatches
                                                                                                      other;
                                                 DB 1;
69;
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                                                                 Length 20;
                                   Indels
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                                   Gaps
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RESULT 41
AAC62905/c
ID AAC629
XX
AC AAC629
XX
DT 06-FEB

standard;

DNA;

20

0

06-FEB-2001 AAC62905; AAC62905

(first entry)

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                                                         Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                         The invention relates to antisense oligonucleotides that detect and modulate the expression of Jun N-terminal kinase (JNK) proteins. The oligonucleotides specifically hybridize to a nucleic acid encoding a JNK1, JNK2 or JNK3 protein, and which modulate expression of these proteins. The oligonucleotides are useful for modulating JNK protein expression and cell cycle progression in cultured cells or animal cells. The oligonucleotides are also useful for modulating the phosphorylation of a protein that has been phosphorylated by a JNK protein, and the expression of a cellular protein that promotes one or more metastatic events. The oligonucleotides also form pharmaceutical compositions for treating animals with a hyperproliferative disease, and for inhibiting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antisense oligonucleotide; Jun N-terminal kinase; JNK; hybridise; JNK1; JNK2; JNK3; cell cycle progression; phosphorylation; tumour; probe; hyperproliferative disease; human; ss.
                                                                                                                                                                                                                                                                                                                                                                     New antisense oligonucleotides that detect and modulate the expression of Jun N-terminal kinase proteins - useful for treating hyperproliferative diseases and inhibiting tumor growth in animals, and for modulating protein phosphorylation by these proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAX29362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAX29362 standard; DNA; 20
                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Dean N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JNK3-specific
                                                                                                                                               tumor growth in an animal.
                                                                                                                                                                                                                                                                                                                                            Example 5; Page 102; 190pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1999-181060/15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-FEB-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO9909214-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                             2642
   17
                       GTTCTTCAGGAGATGAT 2658
 GTTCTTCAGGAGATGAT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaarde WA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20
                                                                                                                   BP; 6 A;
                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        97US-0910629
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                                                                       100.0%;
                                                                                                                   6 C; 3 G; 5 T;
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                                                                                      1.2%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17
                                                          0,
                                                                        Score 17; DB 1;
Pred. No. 69;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Monia
                                                            Mismatches
                                                                                                                     0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ₽P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nero
                                                            0
                                                                                        Length 20
                                                            Indels
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                                                            Gaps
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RESULT 42
AAXOOO49
ID AAXOO
XX AAXOO
XX AAXOO
XX IOO
XX AAXOO
XX AAXOO
XX AAXOO
XX AAXOO
XX AAXOO
XX PGFR
XX Neuro
XX Oligo
XW Oligo
XW Oligo
XW Oligo
XW Oligo
XW Oligo
XW AAXOO
XX Synth
OS Synth
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                                                                                                                                                                                                                                                                                                                                                      Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to antisense oligonucleotides (AAC62944-C63000, AAA96093-A96099 and AAA07993) that hybridise specifically to a nucleotide encoding a Jun N-terminal kinase (JNK2) protein, resulting in decrease of JNK2 expression and leading to induction of apoptosis. The present sequence is one such antisense oligonucleotide. The oligonucleotides of the present invention are useful for treating diseases or conditions with reduced apoptosis, e.g. cancer and cellular hyperproliferation. The oligonucleotides may also be used to increase the stimulation of apoptotic proteins, e.g. for treating hiperproving disease, amylotrophic lateral sclerosis, retinitis, pigmentosa, epilepsy, myocardial infarction, stroke, obstructive jaundice, polycystic kidney and diabetes. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cellular hyperproliferation; Alzheimer's; Parkinson's disease; amylotrophic lateral sclerosis; retinitis; pigmentosa; epilepsy; myocardial infarction; stroke; obstructive jaundice; polycystic kidney; diabetes; Jun N-terminal kinase; ss.
                                          Neuroepithelial stem cell; lineage restricted intermediate precursor; oligodendrocyte; astrocyte; self-renewal; neuron; differentiation; neural crest cell; fibroblast growth factor; FGF; FGFR; receptor; CNS; central nervous system; glial cell; PCR primer; amplification; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          e.g.
                                                                                                                     FGFR PCR sense primer.
                                                                                                                                                      16-MAR-1999
                                                                                                                                                                                                                 AAX00049 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 6 A; 6 C; 3 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          antisense oligonucleotides,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-638427/61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mckay R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             04-APR-2000; 2000WO-US08880
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JNK antisense oligonucleotide ISIS #16709.
                                                                                                                                                                                                                                                                                                                                                                  Local
                                                                                                                                                                                                                                                                                                           2642 GTTCTTCAGGAGATGAT 2658
                                                                                                                                                                                                                                                                                           17
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                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5; Page 139; 160pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                             may
                                                                                                                                                                                                                                                                                         GTTCTTCAGGAGATGAT 1
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                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                             have
                                                                                                                                                   (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       reducing apoptosis comprising cleotides, useful for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                           a phosphorothioate backbone.
                                                                                                                                                                                                                                                                                                                                                                 1.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Monia
                                                                                                                                                                                                                 ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            English.
                                                                                                                                                                                                                                                                                                                                                                  Score 17;
Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                 DB
69;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       contacting cells with apoptotic disorders,
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sapiens.

SV40 hair

viral Large growth stimu

Large T-antigen gene; de stimulating agent; PCR

PCR primer used to

amplify

FGFR3.

28-JUN-1999

(first entry)

AAX34894 standard;

DNA;

20

0

Synthetic

Immortalized human hair papila cell; HPC; screening; hair growth; SV40 viral Large T-antigen gene; deleted replication initiation point;

primer;

88

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RESULT 43
AAX34894/c
ID AAX34
XX AAX34
XX AAX34
XX 28-JU
DT 28-JU
XX DT PCR F
XX Immoz
KW Immoz
KW SV40
KW SV40
OKW hair
XX
CS Synth
XX.
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                                                                                                                                                                                                                                                                                                                                                      ঠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CC differentiation to central nervous system (CNS) neuronal or glial cells
CC and to neuronal crest stem cells. Also described is an isolated
CC population of mammalian CNS glial-restricted precursor (GRP) cells which
CC can self-renew in the AFCI culture medium and can differentiate to CNS
CC glial cells but not to CNS neuronal cells. The stem cells can be used to
CC generate a population of mammalian motor neurons by incubating the stem
CC cells in a medium promoting cell proliferation and neuronal
CC differentiation. The medium comprises laminin-coated plates and NEP
CC medium lacking chick embryo extract. The stem cells can also produce
CC neural crest stem cells by inducing the cells on a laminin-coated
CC medium lacking step comprises replating the cells on a laminin-coated
CC substrate and preferably withdrawing a mitogen (preferably fibroblast
CC growth factor; FGP) and chick embryo extract. Inducing can also comprise
CC adding a dorsalizing agent to the cells, preferably a bone morphogenetic
CC procein (BMP) such as BMP-2, -4 or -7. The stem cells can be used to
CC produce cells of the peripheral nervous system, by inducing the stem
CC cells to differentiate in vitro to neural crest stem cells, and inducing
CC these cells to differentiate. AAX00029 to AX00054 represent PCR primers
CC which are used in an example from the present invention to amplify
CC different FGF and FGFR genes.
                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes an isolated, pure population of mammalian neuroepithelial stem cells, which are capable of self-renewal in adherent feeder-cell-independent (AFCI) culture medium and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mammalian neuroepithelial stem cells and glial restricted precursor - can self renew and differentiate into central nervous system cells, used for generating various types of cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-MAY-1998;
07-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 26; Page 61; 78pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mayer-Proschel M, Mujtaba
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         07-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1999-070093/06
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                                                                                                                                                                                                                                                                                                                                                                                                             Local
                                                                                                                                                                                                                                                                                                                                                1873 GAGATGGAGATGATGAA 1889
                                                                                                                                                                                                                                                                                                                                                                                         l Similarity
17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22
                                                                                                                                                                                                                                                                                                                      GAGATGGAGATGATGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP;
                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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97US-0852744.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; 1 C; 8 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                            1.2%;
                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                            Score 17;
                                                                                                                                                                                                                                                                                                                                                                                                             Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                             79;
                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                         ;
                                                                                                                                                                                                                                                                                                                                                                                                                            Length 22;
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RESULT 44
AAA95391/c
ID AAA95391 standard; DNA; 20
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The specification describes the preparation of immortalized human hair papila cells (HPC). The method comprises transformation of HPC with an SV40 viral Large T-antigen gene with deleted replication initiation point. The immortalized HPC can be used in a screening method for a hair growth agent, by culture of immortalized HPC in the presence of a substance to be tested and observation of the growth of the immortalized HPC. HPC is also used in development of hair growth stimulating agents. The present sequence represents a PCR primer, which is used in the course of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Immortalized human hair papila cells used for evaluation growth agent - are prepared by transformation of human ha cells with gene with deleted replication initiation point
                         Cell comprising exogenous nucleic acid inducing tyrosine hydroxylase expression useful for treating catecholamine-related diseases such as Parkinson's disease, manic depression and schizophrenia
                                                                                                                                                                                                                                                                                                 Rat; Nurr1; tyrosine hydroxylase; catecholamine-related disease; Parkinson's disease; manic depression; schizophrenia; PCR primer;
Example 1; Page 20; 68pp; English
                                                                                                                                                                                                                     05-OCT-2000
                                                                                                                                                                                                                                                                        Rattus norvegicus
                                                                                 WPI; 2000-656165/63
                                                                                                          Sakurada K,
                                                                                                                                      (SALK )
                                                                                                                                                                26-MAR-1999;
                                                                                                                                                                                         21-MAR-2000; 2000WO-US07544
                                                                                                                                                                                                                                               WO200058451-A1
                                                                                                                                                                                                                                                                                                                                         Rat FGFR coding sequence PCR primer #2.
                                                                                                                                                                                                                                                                                                                                                                     12-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                               AAA95391;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1822 AAGATGTTGAAAGATGATGC 1841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18;
                                                                                                                                     SALK INST BIOLOGICAL STUDIES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAGATGCTGAAAGACGATGC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                          Palmer T,
                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                99US-0277078.
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                                                                                                          Gage FH
                                                                                                                                                                                                                                                                                                                                                                                                                         ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 16.8; DB Pred. No. 75;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 20;
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hair papil
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Query Match
Best Local
                                                                                                    The present invention describes the rat Nurr1 coding and protein sequences. The Nurr1 protein is involved in the induction of tyrosine hydroxylase expression in adult rat-derived hippocampal progenitor cells. The Nurr1 gene and protein can be used in the treatment of catecholamine-related diseases such as Parkinson's disease, manic depression and schizophrenia. They can also be used to induce tyrosine hydroxylase expression and identify tyrosine hydroxylase related deficiencies, which are linked to the same diseases. The present sequence is a PCR primer used in a method to differentiate adult neural progenitor
                                                     Sequence
                                                       20
                                                   BP; 5 A;
1.2%;
                                                     6 C;
                                                       N
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 Score 16.8;
Pred. No. 7:
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                                                       7
                                                     N
                                                       other;
                DB 1;
                Length 20;
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Matches
               2191 ATGAAAATAGCAGACTTTGG 2210
 20
                                           1 Similarity
17; Conserv
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ATGAAGATHGCDGACTTTGG 1
                                             Conservative
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••
                                           Mismatches
                                             ۲.
                                             Indels
                                             <u>,</u>
                                             Gaps
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Local

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RESULT 45
AAD41768/c
ID AAD417
XX AAD417
XX AAD417
XX AATise
AC AAD417
XX AATise
KW inflam
XX Antise
KW inflam
XX Homo s
OS Synthe
XX Synthe
FT modifi
                                                                                                                                                                            modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAD41768 standard;
                                        modified_base
                                                                                                                                             modified_base
                                                                                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                   Human RECQL2 antisense oligonucleotide, ISIS #137549.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAD41768;
US6399378-B1
                                                                           modified_base
                                                                                                            modified_base
                                                                                                                                                                                                                                                                                                                 modified_base
                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                              Antisense;
                                                                                                                                                                                                                                                                                                                                                                                                                                          30-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                   inflammation;
                                                                                                                                                                                                                                                                                                                                                                                  RECQL2; Bloom's disorder; prophylaxis; infection; tumour;
on; therapy; human; phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                           /note=
16..20
                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                   /*tag= h
/mod_base= m5c
                                                     mod_base=
                                                                                       mod_base=
                                                                                                                        mod_base= m5c
                                                                                                                                                        mod_base=
                                                                                                                                                                                 'mod_base= OTHER
'note= "2'-methoxyethyl nucleotides"
                                                                                                                                                                                                                                                mod_base= OTHER
                                                                                                                                                                                                                                                                                note= "Phosphorothicate"
                                                                  *tag=
                                                                                                                                                                     *tag=
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                                                                                                     *taq=
                                                                                                                                    *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                            base= OTHER
                                                                                                                                                                                                                                     "2'-methoxyethyl nucleotides"
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                                                                                         m5c
                                                                                                                                                           m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     쁌
                                                                                                                                                                                                                                                                                backbone"
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01-MAR-2001; 2001US-0798096

04-JUN-2002.

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ARASOUT 46
ARASOLT 46
ARASOLT
XX ARASOL
XX ARASOL
XX PCR pr
XX PCR pr
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XX POTE jr
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to antisense compounds targetted to nucleic acid encoding RECQL2 (gene associated with Bloom's disorder) to inhibit the expression of RECQL2. Antisense compounds of the invention are useful for treating diseases associated with expression of RECQL2, in humans. They are useful for diagnostics, therapeutics and as research reagent, e.g. prophylactically to prevent or delay infection, inflammation or tumour formation. They are also useful in antisense therapy. The present sequence is an antisense oligonucleotide targetted to human
                                                                                                                                                                                                                                                                                                     PCR primer; GFRalphal; GFI-anchored GDNF family receptor alpha-1; GDNF; glial cell line-derived neurotrophic factor; glycophosphatidyl-inositol; GFI; auditory neuron protector; improve learning ability; treatment; Parkinson's disease; epilepsy; neuronal disease; Ret; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antisense compounds targeted to nucleic acids encoding RECQL2 associated with Bloom's disorder, for modulating RECQL2 expression treating diseases e.g. tumors associated with expression of the REC
                                                                                                                                                                                             01-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                         PCR primer used for analysis of Ret expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                 AAA30118;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAA30118 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 3; Column 45; 86pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-MAR-2001; 2001US-0798096
               Methods for
                                            WPI; 2000-317748/27
                                                                     Titievsky AV,
                                                                                                                                                                   01-OCT-1998;
                                                                                                                                                                                                                         13-APR-2000.
                                                                                                                                                                                                                                                   WO200020867-A1
                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                      10-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RECQL2 DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    in humans
                                                                                                                          (TITI/) TITIEVSKY A V. (POTE/) POTERIAEV D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1882 ATGATGAAGATGATTGGGAA 1901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2002-535979/57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18;
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SAARMA
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screening for agonists and intracellular signalling pa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 5 A;
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                                                                     Poteriaev
                                                                                                                                                                   98US-0102647.
                                                                                                                                                                                              99WO-IB01681.
                                                                                                                                                                                                                                                                                                                                                                                                    entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.2%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0,
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Pred. No. 75;
                                                                     Arumae U,
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nd antagonists of particularly GFR
                                                                     Saarma
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GPI-anchored alpha1-dependent,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
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treatment of neuronal diseases
                                                                          Ret-independent intracellular signalling, useful in methods
                                                               71pp;
                                                                            for
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of receptor tyrosine kinase (Ret) expression. GDNP (glial cell line-derived neurotrophic factor) is a transforming growth factor-beta family related neurotrophic protein. GDNP action is thought to act through GPI-anchored GDNP family receptor alpha-1 (GPRalphal) and Ret. The PCR primer represented by this sequence is used in an example of the method of the invention. The method is used to identify compounds that are agonists or antagonists of intracellular signalling effected by glycophosphatidyl-inositol (GPI)-anchored receptors in cells of the nervous system. Ret-independent signalling gathways may stimulate neurotransmitter synthesis. The compounds identified by the method of the invention can be used for protecting auditory neurons, improving learning ability, treating epilepsy and treating Parkinson's disease. The present sequence represents a PCR primer used in the RT-PCR analysis

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           S
                            Matches
                                  Query Match
Best Local
             2319
20
                            18;
                                  Similarity
TCAAAGTGATGTGTGGTCCT 1
            TCAGAGTGATGTCTGGTCCT 2338
                            Conservative
                                 1.2%;
                           ,
,
                                  Score 16.8;
Pred. No. 8
                            Mismatches
                                   90;
                                         BB
                                         1,
                           2
                                       Length
                            Indels
                                          21
                           0
                            Gaps
                            0
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Sequence 21 BP; 7 A; 6 C; 4 G; 4 T; 0 other;

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RESULT 47
AAC92592/c
ID AAC925
XX AAC925
XX AAC925
XX Human
XX Human
XX Human
XX Human
XX Eall 9
XX System
XX System
XX System
XX System
XX Immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cell growth; transcriptional repression; replication; signal transduction; chromatin decondensation; Ag-NOR fanucleolin antibody; systemic connective tissue disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human nucleolin; P92; C23; phosphoprotein; ribosome biogenesis; ribosome transport; cytokinesis; nucleogenesis; cell proliferation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAC92592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human nucleolin phosphorothioate antisense oligonucleotide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    scleroderma-like chronic graft versus host disease; expression inhibition; tumour formation; cancer; in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     systemic lupus erythematosus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 disorder;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             phosphorothioate; antisense oligonucleotide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SLE;
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Novel antisense compound targeted to human nucleolin which hybridizes with and inhibits the expression of human nucleo for modulating the expression of nucleolin in cells

nucleolin, useful

2001-079848/09

CF. SISI

Cowsert LM; PHARM INC. 03-NOV-1999;

9905-0433699 9908-0433699

03-NOV-1999; 26-DEC-2000. US6165786-A.

Claim 14; Column 41-42; 41pp; English

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RESULT 48
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (active ribosomal gene located in the nucleolar organiser region) family of proteins which are markers of active ribosomal genes, and whose expression is associated with the prediction of tumour growth rate. The presence of antibodies against nucleolin are associated with systemic connective tissue diseases such as systemic lupus crythematosus (SLE) and soleroderma-like chronic graft versus host disease. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequences AAC92560-C92639 represent antisense oligonucleotides targetted to the human nucleolin gene, which inhibit its expression. The antisense oligonucleotides were designed to target different regions of the human nucleolin mRNA, and were analysed for their effect on nucleolin mRNA levels by quantitative real-time PCR. Nucleolin (also known as P92 or C23) is the most abundant nucleolar phosphoprotein in actively growing cells. Nucleolin primarily participates in ribosome biogenesis and transport of ribosomal components, being able to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   growth, transcriptional repression, replication, signal transduction, and chromatin decondensation. Nucleolin is a member of the Ag-NOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  transiently bind to pre-ribosomes in the nucleolus via a ribonucleoprotein consensus sequence. However, it has also been shown to be involved in cytokinesis, nucleogenesis, cell proliferation and
                  Claim 2; Page 16; 46pp; English
                                                      Novel nucleic acid used for genotyping, metabolism -
                                                                                                        WPI; 2000-105892/09
                                                                                                                                       Guida M,
                                                                                                                                                                                                             10-JUN-1998;
                                                                                                                                                                                                                                              09-JUN-1999;
                                                                                                                                                                                                                                                                                  16-DEC-1999.
                                                                                                                                                                                                                                                                                                                   WO9964630-A1
                                                                                                                                                                                                                                                                                                                                                                                     variation
                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Single nucleotide polymorphism; SNP; probe; genotyping; human; drug metabo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human STP2 exon 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-APR-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAZ59328 standard; DNA; 21 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             oligonucleotides of the invention are useful for diagnosis, prevention and treatment of conditions associated with nucleolin expression, such
                                                                                                                                                                             (-SYXA)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1878 GGAGATGATGAAGATGAT 1895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19
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17; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             formation,
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                                                                                                                                       Kurth J;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                             PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                               98US-0088710
                                                                                                                                                                                                                                                99WO-US13094
                                                                                                                                                                                                                                                                                                                                               /*tag=
/note=
                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           polymorphism sequence 86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             immune disorders and inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C; 1
                                                                                                                                                                                                                                                                                                                                                   a
"Site of polymorphism"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           G; 8
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Pred. No. 86;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; SNP; STP2;
metabolism;
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                                                                    e.g.
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ss.
                                                                      to
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                                                                      predict rate of drug
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 20;
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RESULT 49
AAX3777
XX AAX3777
XX AAX3777
XX AAX377
XX AAX377
XX Synthe
OS Staphy
XX WO9916
XX BENA-
PR 26-SEP
XX 26-SEP
XX GENA-
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XX WPI; 1
XX New St
XX New St
XX New St
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CC They Co
CC antise
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
            This invention describes novel Staphylococcus-specific oligonucleotides based on the consensus femA nucleotide sequence which are used to develop products for the identification, detection and therapy of infections. The oligonucleotides can be used for the genetic amplification, the identification and/or quantification of various femA sequences which are specific to known or unknown Staphylococci species. Since the femA sequence is similar to the femB sequence, the oligonucleotides can also be used for the molecular genotyping of femB genes of different Staphylococci species or other gram-positive bacteria. The femA nucleic acids can also be used in therapeutic applications. They can also be used to identify inhibitors, e.g. antibodies or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    acetaminophen, and paranitrophenol. Several of the nucleotide changes identified at the polymorphism sites, give rise to an amino acid change. Amino acid changes may result in altered enzyme activity. The sequences can be used as probes for detecting STP2 polymorphisms. The polymorphic probes are used in screening and genotyping, i.e. to predict the rate of metabolism of STP2 substrates, potential drug-drug interactions and adverse side effects. They can also be used to detect diseases resulting from accidental or occupational exposure to toxins and to establish animal, cell or in vitro models for drug metabolism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequences AAZ59305-Z59352 are fragments of the human STP2 gene. fragments are from the 8 exons, the promoter region, 3' and 5' untranslated regions of the STP2 gene. Each sequence contains a identified STP2 gene single nucleotide polymorphism (SNP). STP2 phenol sulphorransferase. Substrates for STP2 include minoxidil,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAX37791 standard; DNA; 21 BP
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amplification;
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                                                                                                                                                                                                                                  Example 1; Fig 1; 48pp; English.
                                                                                                                                                                                                                                                                   New Staphylococcus-specific oligonucleotides
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                                                                                                                                                                                                                                                                                                                                                                                                                              26-SEP-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Staphylococcus
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                                                                                                                                                                                                                                                                                                                                                                            (-OTAD)
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17; Conserv
                                                                                                                                                                                                                                                                                                                                                                          BELGIAN MIN NAT
UNIV CATHOLIQUE
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                                                                                                                                                                                                                                                                                                                                           Vannuffel
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         identification; detection;
; genotyping; gram-positive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gp.
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                                                                                                                                                                                                                                                                                                                                                                            LOUVAIN.
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Pred. No. 9;
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 blocking expression
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             therapy; : bacteria;
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antisense oligonucleotides,

They can also be used for

producing vaccines

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RESULT 50
AAQ5215
ID 26-M3
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XX AAQ52
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XX Neuro
XX Homo
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The sequences given in AAQ51825-2266 represent areas of mRNAs which are associated with development or maintenance of chronic myelogenous leukemia (CML), promyelocytic leukemia, Burkitt's lymphoma, or acute lymphocytic leukemia, follicular lymphoma, B-cell acute lymphocytic leukemia, solon carcinoma, neuroblastoma and lung cancer. The full length mRNAs containing these target sequences, encode aberant cellular proteins which are able to control cellular proliferation and are directly linked to a leukemic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Multiple drug resistance; mdr-1; ribozyme; membrane protein; liver; resistance; chemotherapeutic agent; colchicine; doxorubicin; colon; actinomycin D; vinblastine; small intestine; kidney; adrenal gland; adenocarcinoma; bowel; transformed phenotype; promyelocytic leukemia; human; chronic myelogenous leukemia; CML; follicular lymphoma; B-cell acute lymphocytic leukemia; breast cancer; colon carcinoma; neuroblastoma; lung cancer; genetic drift; mutation; hammerhead motif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        nucleotide sequences.
against Staphylococci
                                                                                                                                                                                                                                    Claim 3; Fig 10; 69pp; English.
                                                                                                                                                                                                                                                                                   multiple drug resistance
                                                                                                                                                                                                                                                                                                              New enzymatic RNA molecules (ribozymes) - associated with tumours or mRNA expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-DEC-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-AUG-1992;
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14-MAY-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13-MAY-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-MAR-2003
26-MAY-1994
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (RIBO-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1878 GGAGATGATGAAGATGATTGG 1898
                                                                                                                                                                                                                                                                                                                                                                                           1993-386203/48
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RIBOZYME PHARM INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                          Thompson
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(first entry)
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93US-0006122.
93US-0008910.
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92US-0936531.
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92US-0882885.
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0; Mismatches
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Pred. No. 99
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB
                                                                                                                                                                                                                                                                                                           from gene encoding
                                                                                                                                                                                                                                                                                                                                        which cleave mRNA
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RESULT 51
AAA82642
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             resistance (mdr-1) mRNA specific ribozymes remove the mechanism of drug resistance used by transformed cells and thus enhances drug therapies for tumours. The ribozymes may also be used to study genetic drift and mutations within cells.

(Updated on 25-MAR-2003 to correct PN field.)
                                     designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase other than cell-cycle dependent kinases CDK1, PCNA and Cyclin Bl. Representative examples of ribozymearcognition state are given in AAA86787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells. The ribozyme is resistant to endonuclease activity and hence is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the invention. The ribozymes is formed in a hammerhead motif, but may also be formed in the motif of a hairpin, hepatitis delta virus, group I intron or RNasep-like RNA. These ribozymes may be used to inhibit the development or expression of a transformed phenotype in man and other animals by modulating expressed in pre-neoplastic and transformed cleavage of target mRNAs expressed in pre-neoplastic and transformed cells elicits inhibition of the transformed state. Multiple drug
                                                                                                                          The present invention relates to a hairpin or hammerhead ribozyme,
                                                                                                                                                    Disclosure; Page 49; 109pp; English.
                                                                                                                                                                               New hairpin and hammerhead ribozyme
RNA encoding a cyclin or cell-cycle
PCNA and Cyclin B1 -
                                                                                                                                                                                                                                         WPI; 2000-412314/35
                                                                                                                                                                                                                                                                                                                           04-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                       06-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                  08-JUN-2000
                                                                                                                                                                                                                                                                                                                                                                                                             WO200032765-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                          Mammalia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ribozyme; hairpin; hammerhead; gene therapy; vasotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cdk2 ribozyme binding site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-DEC-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAA82642 standard; DNA; 19
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                                                                                                                                                                                                                                                                   Tritz R,
                                                                                                                                                                                                                                                                                                 (IMMU-) IMMUSOL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  phenotype.
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                                                                                                                                                                                                                                                                   Welch PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      88
 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  These target sequences are identified by the ribozyme of
                             restenosis treatment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry
                                                                                                                                                                                                                                                                                                                           98US-0110954.
                                                                                                                                                                                                                                                                                                                                                       99WO-US28772.
                                                                                                                                                                                                                                                                                               INC
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 5 C;
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                                                                                                                                                                                                                                                                   Barber JR,
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G;
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Pred. No.
 5 T;
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                                                                                                                                                                                                                                                                     Robbins
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0 other;
                                                                                                                                                                                               for inhibiting restenosis, cleaves dependent kinase other than CDK1,
 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          93;
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Query Match Best Local Similarity

1.1%;

Score 15.8; DB 1; Pred. No. 1e+02;

Length

19;

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RESULT 52
AAH57804
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme; recognition site; target; ribozyme binding site; eye disease; vulnerary; proliferative disease; skin disease, sporiasis; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP; matrix metalloproteinase; growth factor; reductase; scarring; cytostatic antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide; antisickling; ophthalmological; keratolytic; gene therapy; viral wart; atopic dermatitis; actinic keratosis; squamous cell carcinoma;
                                                                    also be used for treating proliferative eye diseases such as diabetic retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of premarturity and retinal detachment, and for treating and preventing scarring such as keloid, addesion and hypertrophic or hypertrophic burn scar. AAH5757 to AAH62099 represent sequences used in the exemplification of the companion of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes a method for treating a proliferative skin or eye disease and scarring. The method involves administering a ribozyme (I) which cleaves RNA encoding a cytokine involved in inflammation, matrix metalloproteinase (MMP), cycllin, cell-cycle dependent kinase, growth factor or a reductase, or administering a
                                                                                                                                                                                                                                           dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling, ophthalmological, vulnerary, keratolytic and virucide activities, and cleaves RNA encoding cytokine involved in inflammation. (I) can be used in gene therapy. (I) and (II) are useful for treating proliferative skin diseases such as psoriasis, atopic dermatitis, actinic keratosis, squamous or basal cell carcinoma and viral or seborrheic wart. They can
                                                                                                                                                                                                                                                                                                                                                                                                                                  nucleic acid molecule (II) comprising a promoter operably linked to a nucleic acid segment encoding (I). (I) can have antipsoriatio,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Treating proliferative skin or eye diseases and scarring, using ribozymes that cleave RNA encoding cytokines involved in inflammation,
                                                       exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                    nucleic acid segment encoding (I).
dermatological, cytostatic, antise
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 1; Page 88; 408pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     matrix metalloproteinases, growth factors and cell-cycle dependent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-300427/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26-OCT-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sickle cell retinopathy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cell-cycle dependent kinase cdk2 ribozyme binding site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-SEP-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (IMMU-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2205 CTTTGGACTCGCCAGAGAT 2223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cell carcinoma; seborrheic wart; vitreoretinopathy; scar;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IMMUSOL INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tritz R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99US-0161532
                                                       present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
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Sequence 19

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T; 0 other

HERG gene exon 7/intron 7 junction sequence

19-JUN-2000

(first entry)

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RESULT 54
AAA07637/c
ID AAA076
XX
AC AAA076
XX
DT 19-JUN
XX
DE HERG C
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AAZ07940/c
ID AAZ079
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                                                                                                                                                                                   Matches
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                             useful for the treatment of asthma and in gene therapy for the treatment of asthma and in gene therapy for the treatment of asthma and in gene therapy for the treatment of allergic diseases. IzEC-CIM blocks IgE binding to mast cells/basophils 10000 fold better than native soluble CD23, and has comparable blocking and binding efficiency to antibodies, but without any side effects. Sequences AAZ07939-946 represent PCR primers used in the preparation of chimeric CD23 constructs.
                                               AAA07637;
                                                                       AAA07637
                                                                                                                                                                                                                                  Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                        Chimeric protein derived from the extracellular region of CD23, useful for treating asthma and allergic diseases -
                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1999-579942/49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US5965712-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chimeric protein; IzEC-C1M; extracellular; CD23; asthma; gene therapy; allergic disease; mannose binding protein; MBP; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mannose binding protein (MBP) cDNA fragment amplifying primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAZ07940;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAZ07940 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Column 4; 18pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conrad DH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (UYVI-) UNIV VIRGINIA COMMONWEALTH
                                                                                                                                                                                               Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2205
                                                                                                                                               1819 GTGAAGATGTTGAAAGATG 1837
                                                                                                                                                                                  l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 CTTTGGACTAGCCAGAGCT 19
                                                                      standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTTTGGACTCGCCAGAGAT
                                                                                                                                   GTGAAAATGTTGAAAGAAG
                                                                                                                                                                                                                                  BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Kelly AE
                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98US-0100398
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                                                                       DNA;
                                                                                                                                                                                             89.5%;
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                                                                                                                                                                                                                                  6 C; 0 G; 10 T; 0 other;
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                                                                                                                                                                                                          Score 15.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 15.8; DB 1;
Pred. No. 1e+02;
                                                                                                                                                                                               Pred.
                                                                                                                                                                                   Mismatches
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                                                                                                                                                                                              No.
                                                                                                                                                                                              1.1e+02;
                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2
                                                                                                                                                                                                       Length 20;
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to a HERG protein having a mutation compared to wild-type HERG, and is useful for developing products for the diagnosis, prevention and treatment of long QT (LQT) syndrome. The products and methods can be used for the diagnosis of subjects with LQT syndrome. They can also be used to screen for drugs for treating or preventing LQT syndrome. The HERG nucleic acids can also be used for gene therapy and HERG peptides can be used for peptide therapy. Sequences AAA07624-653
                    16-MAY-2000;
07-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI;
                                                                                                                                                                              Telomerase reverse transcriptase; TERT; cytostatic;
                                                                                                                                                                                                                             09-APR-2002
(ISIS-) ISIS PHARM INC
                                                      15-MAY-2001; 2001WO-US15774.
                                                                              22-NOV-2001.
                                                                                                   WO200188198-A1
                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                      Telomerase reverse transcriptase, antisense oligonucleotide
                                                                                                                                                                                                                                                    AAS96638
                                                                                                                                                                                                                                                                           AAS96638 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20 BP; 2 A; 4 C; 7 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Keating
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06-JAN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HERG; mutation; long
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           isolated mutant HERG nucleic acids, useful the diagnosis, prevention and treatment of
                                                                                                                                                                                                                                                                                                                                                       2556 CACTCTCACAACCAATGAG 2574
                                                                                                                                                                     growth
                                                                                                                                                                                                                                                                                                                                   19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8; Page 71; 163pp; English
                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         diagnosis, prevention
                                                                                                                                                                                                                                                                                                                                  CACACTCACAGCCAATGAG 1
                                                                                                                                                         technology; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                               intron/exon junction sequences of the
                                                                                                                                                                      inhibitor; antisense oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                               Conservative
                      2000US-0572423.
2000US-0733294.
                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Splawski I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98US-0122847.
99US-0226012.
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                                                                                                                                                                                                                                                                                                                                                                                        1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     QT syndrome; LQT syndrome;
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                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                    Score 15.8; DB 1;
                                                                                                                                                                                                                                                                                                                                                                                           Pred.
                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                           1.1e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for developing products long QT syndrome -
                                                                                                                                                                                                                                                                                                                                                                                                                                                 HERG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                  Length 20;
                                                                                                                                                                              apoptosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                gene.
                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                              0
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WPI; 2002-075321/10. Monia BP, New compound targeted Gaarde WA, Freier , MS Wancewicz

expression of TERT, useful for modulating transcriptase argeted to nucleic acid molecule encoding telomerase (TERT), which specifically hybridises with and inhibits apoptosis and inhibiting cell

Claim 26; Page 91; 154pp; English.

CC transcriptase, where the compound specifically hybridises with and cc inhibits the expression of TERT. A series of oligonucleotides were cc designed to target different regions of the human TERT RNA. These were C2 on nucleotides in length and composed of a central gap region consisting of ten 2'-deoxymucleotides, flanked on both sides (5' and 3' directions) Cb y five-nucleotide wings. The wings were composed of 2'-methoxyethyl CC (2'-MOE) nucleotides. The compounds were analysed for their effect on them TERT mRNA levels by reverse transcriptase (RT)-polymerase chain CC reaction (PCR). The compound is useful for inhibiting the expression of CC TERT in cells or tissues, for treating a human having disease or condition associated with TERT, for modulating apoptosis, for inhibiting cell growth (preferably, cancer cell growth), in antisense therapy and CC cell growth (preferably, cancer cell growth) in antisense therapy and CC colligonucleotide used to modulate the activity of nucleic acid molecules or concoding TERT, described in the method of the invention. The invention describes a compound, 8-50 nucleobases in length targeted to a nucleic acid molecule encoding human TERT (telomerase reverse

Sequence 20 BP; 4 A; 3 C; 6 G; 7 T; 0 other;

Matches Query Match Best Local Local l Similarity 17; Conserv Conservative 1.1%; 0 Score 15.8; Pred. No. 1. Mismatches 1.1e+02; DB 1; 2 Length 20; Indels 0 Gaps 0

밁 Ś 2020 GGGATGGAGTACTCCTATG 2038 GGGATGGACTATTCCTATG 19

ABS97 RESULT 56

ABS97467 standard; DNA; 21

23-DEC-2002 (first entry)

Human diazepam binding inhibitor (DBI) gene polymorphic sequence #11.

KW Human; ds; cytochrome: P450 A1; CYP4501A1; UGT2B4; MDR1;
KW cytochrome P450 A2; CYP4501A2; cytochrome P450 02E; CYP45002E1; LTF;
KW adrenergic receptor beta1; ADBR1; arryl hydrocarbon; AHR; MRP3; NR112;
KW aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;
KW cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
KW epoxide hydroxylase 2; EPHX2; 5-11poxygenase activating protein; FLAP;
KW glutathione-S-transferase 12; GST12; histamine-N-methyl transferase;
KW HNNT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase;
KW MADPH quinone oxidoreductase 2; NOO2; sulfotransferase; NNMT;
KW NADPH quinone oxidoreductase 2; NOO2; sulfotransferase thermolabile;
KW WIN; UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; uPA;
KW WIN; UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; uPA;
KW multidrug resistance 1; lactotransferrin; orphan nuclear receptor;
KW multidrug resistance associated protein 3; cancer; prostate;
KW multidrug resistance associated protein 3; cancer; prostate;
KW multidrug metabolism; cardiovascular function; colorectal tumour;
KW acetylcholine muscarinic receptor; UFMR1; CHMR2; CHMR3; CHMR4; CHMR5;
KW acetylcholine muscarinic receptor; upa;
we incle a protein system; pulmonary; immunological; SNP; nucleotide polymorphism

WO200257410-A2

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CC cytochrome P430 A1 (CYP450LA1), Cytochrome P430 A2 (CYP450CEL), acrostrome P430 A2 (CYP450EL), acrostrome P43
                                                                                                                                                  Matches
                                                                                                                                                                                        Query Match
Best Local
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markers for locating, identifying and ch
responsible for disorder-related traits
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          molecule comprising at least one base variation from that of a known human cytochrome P450 A1 (CYP4501A1), cytochrome P450 A2 (CYP4501A2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2002-698522/75
                                                                                                                                                                                                                                                                                                    Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This invention relates to the sequence of an isolated nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 9; Page 115; 714pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Guida M, Hall J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (DNAS-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-NOV-2001; 2001WO-US44838
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-JUL-2002.
                                                                                                                                                                                    Local
                                                                         2055 TGAGGAGCAGATGACCTTC
                                                                                                                                                  17;
                                                                                                                                                                                    Similarity
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TGATGAGCAGATGCCCTTC 2
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                                                                                                                                                                                                                                                                                                    BP; 6
                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                             of the invention.
                                                                                                                                                                                                                                                                                                A; 5 C; 6
                                                                                                                                                                         1.1%;
                                                                                                                                                  <u>,</u>
                                                                                                                                                                                                                                                                                                    G; 4 T; 0
                                                                         2073
                                                                                                                                                                                    Score 15.8; DB 1; Pred. No. 1.1e+02;
                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                    other;
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KW Human; ds; cytochrome P450 Al; CYP4501Al; UGT2B4; MDR1;
KW cytochrome P450 A2; CYP4501A2; cytochrome P450 02E; CYP45002E1; LTF;
KW cytochrome P450 A2; CYP4501A2; cytochrome P450 02E; CYP45002E1; LTF;
KW adrenergic receptor beta1; ADBR1; arryl hydrocarbon; AHR; MRP3; NR112;
KW aryl hydrocarbon receptor nuclear translocator; ARRT; cathepsin S; CTSS;
KW cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
KW cyclooxgenase 2; EPHX2; 5-11poxygenase activating protein; FLAP;
KW glutathione-5-transferase 1; GST12; histamine-N-methyl transferase;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase;
KW MADPH quinone oxidoreductase 2; NQO2; sulfotransferase thermolabile;
KW MADPH quinone oxidoreductase 2; NQO2; sulfotransferase thermolabile;
KW MADPH quinone oxidoreductase 2; NQO2; sulfotransferase receptor; uPA;
KW MUCT2B7; UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; uPA;
KW Multidrug resistance 1; lactotransferin; orphan nuclear receptor; uPA;
KW multidrug resistance 1; lactotransferin; orphan nuclear receptor; uPA;
KW multidrug resistance associated protein 3; cancer; prostate;
KW acetylcholine muscarinic receptor; CHMR1; CHMR2; CHMR3; CHMR4; CHMRS;
KW altered drug metabolism; cardiovascular function; colorectal tumour;
KW central nervous system; pulmonary; immunological; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   single nucleotide polymorphism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human epoxide hydroylase 2 polymorphic sequence #46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-DEC-2002
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Homo sapiens.

25-JUL-2002.

28-NOV-2001; 2001WO-US44838.

28-NOV-2000; 2000US-0724389

(DNAS-) DNA SCI LAB INC

Guida M, Hall J;

WPI; 2002-698522/75.

Isolated nucleic acid molecules having polymorphisms in known human genes e.g. cytochrome p450 and cathepsin S useful as genetic linkage markers for locating, identifying and characterizing the genes responsible for disorder-related traits

Example 10; Page 118; 714pp; English.

complectule comprising at least one base variation from that of a known cytochrome P450 A1 (CYP4501A1), cytochrome P450 A2 (CYP4501A2), cytochrome P450 A2 (CY This invention relates to the sequence of an isolated nucleic acid

Χü

ABS97555 standard; DNA; 21 BP

ABS97555 RESULT 57 밁 5

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RESULT 58
ABQ84277
ID ABQ84
AC ABC84
AC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24-APR-2001;
12-OCT-2001;
12-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for screening individuals for altered drug metabolism. The polymorphic sequences contained in CYP4501A1, CYP94501A2, AHR, MDR1 and/or MDR3 may also be used to screen individuals for susceptibility to cancer. Polymorphic sequences in ADRB1 or CHWR2 are used to screen for altered cardiovascular function, in COX2 for altered susceptibility to colorectal tumours, in DBI or CHWR1 for altered central nervous system function, in FLAP and HNMT for altered munchological or haematological function, in KLK2 for altered serine protease activity in the prostate, in LTF for altered immunological or haematological function, in CHWR3, CHWR4 or CHWR5 for altered central and peripheral function, in CHWR3, CHWR4 or CHWR5 for altered central and peripheral
                                                                                                                                                                                                                                                                                                New nucleic acid sequence comprising DPP10 mRNA, useful for the manufacture of a medicament for regulating DPP10 protein expression for preventing or treating inflammatory disease e.g., inflammatory
                                                                                    The present invention describes a new isolated nucleic acid sequence (I) comprising a DPP10 mRNA sequence. DPP10 is a dipeptidyl peptidase (also known as prolyloligopeptidase). (I) has antiinflammatory, antiasthmatic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24-APR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DPP10; dipeptidyl peptidase; prolyloligopeptidase; enzyme; asthma; antiinflammatory; antiasthmatic; antipsoriatic; antiarthritic; antitheumatic; vaccine; gene therapy; inflammatory disease; inflammatory bowel disease; atopy; rheumatoid arthritis; psoriasis
                                                        antipsoriatic, antiarthritic and antirheumatic activities, and can
                                                                                                                                                                                                                     Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ISIS-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24-APR-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               chromosome 2q14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Beta-actin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-FEB-2003
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                                                                                                                                                                                                                                                                                 preventing
el disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2638
in vaccines and gene therapy. A composition comprising () for the manufacture of a medicament for regulating DPP10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ISIS
                                                                                                                                                                                                                  2; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WOCM,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; 2001GB-0010044.
; 2001GB-0010046.
; 2001GB-0024575.
; 2001GB-0024594.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INNOVATIONS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Moffat MF, Allen
                                                                                                                                                                                                                     70;
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                                                                                                                                                                                                               English
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Pred. No. 1.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     rheumatoid arthritis; psoriasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lench
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                                  (I) can
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expression

The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VBGF). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention.

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                                                         Query Match
Best Local S
Matches 17
                                                                                                                                                      or for preventing or treating inflammatory disease e.g., inflammatory bowel disease, asthma, atopy, rheumatoid arrhritis or psoriasis. (I) calso be used in an assay for detecting or measuring DPP10 in a sample. A host cell comprising (I) can be used for producing recombinant DPP10 gene products, or in drug screening systems to identify agents for diagnosis or treatment of individuals having or susceptible to inflammatory disease. Human DPP10 is located on chromosome 2, more specifically chromosome 2q14. ABQ84254 to ABQ84612 and ABP5569 to ABQ85629 represent sequences used in the exemplification of the present
                                                                                                                Sequence
                            1565
                                                         1 Similarity
17; Conserv
 w
                  CGGCTGAGTCCAGCTCCTC 1583
CGGCTGCTTCCAGCTCCTC 21
                                                                                                                  21
                                                                                                                ВP;
                                                          Conservative
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O; Mismatches
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RESULT 59
AAX74847
ID AAX7
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                                                                                                                                                                                                                                                                        flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
fms-like tyrosine kinase 1; kinase insert domain containing receptor;
                                     11-JAN-1996;
26-OCT-1995;
                                                                                              25-OCT-1996;
                                                                                                                                        01-MAY-1997.
                                                                                                                                                                                                                                                                                                                                                                               Mouse flt-1 VEGF receptor hammerhead ribozyme substrate #375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAX74847
                                                                                                                                                                                                                                                           foetal
                                                                                                                                                                                                                                                                                                                                     Vascular
(CHIR ) CHIRON CORP
                                                                                                                                                                                                                                                                                                                                       endothelial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  standard; RNA;
                                                                                                                                                                                                                                                                                                                   dothelial growth hammerhead riboz
                                                                                                                                                                                                                                                             kinase
                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry
                                   96US-0584040.
95US-0005974.
                                                                                                96WO-US17480.
                                                                                                                                                                                                                                                             88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17
                                                                                                                                                                                                                                                                                                                                       factor receptor; VEGF receptor; flt-1;
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Escobedo J,

McSwiggen

Ç

Pavco

P,

Stinchcomb

(RIBO-)

RIBOZYME PHARM INC.

Nucleic acid molecule modulating VEGF mRNA stability - useful for treating psoriasis, rheumatoid arthritis, etc.,

etc.,

receptor(s) gene expression e.g. tumour angiogenesis, in a human patient

or

Claim 4; Page 166; 218pp; English. .

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RESULT 60
AAV96441/c
ID AAV964
XX Solanu
XX Solanu
XX Solanu
XX Solanu
XX Solanu
XX Hibori
PM W9832
XX 24-NOV
PR 28-JAN
XX (RIBO-
PI MCSWig
XX (RIBO-
XX WPI; 1
XX New er
PT biosyr
XX Claim
XX C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             S
                                                      alkaloids; or (ii) involved in flower formation. AAV9592 to AAV96334, cand AAV96335 to AAV96354 represent potato solanidine glucosyltransferase hammerhead and hairpin ribozymes, respectively. AAV95629 to AAV95981, and AAV96355 to AAV96734 represent potato solanidine glucosyltransferase target sequences. AAV96773 to AAV97170, and AAV97171 to AAV97195 represent potato citrate synthase hammerhead and hairpin ribozymes. Crespectively. AAV96773 to AAV97772, and AAV97196 to AAV9720 represent potato citrate synthase hammerhead and hairpin ribozymes. Crespectively. AAV96735 to AAV96772, and AAV97196 to AAV9720 represent potato citrate synthase target sequences. Ribozymes of the present invention can be used to inhibit the synthesis of toxic alkaloids in solanaceous plants, particularly potato but also tomato, pepper, aubergine and ditura or to inhibit flowering in potato, lettuce, spinach, cabbage, brussel sprouts, arugula, kale, collards, chard, beet, turnip, sweet potato and turf grass. Also the ribozymes can be used for RNA manipulation in the same way that restriction endonucleases are for DNA, as well as to examine genetic drift and mutations in plants and to consensus sequences within a family of related genes, and being catalytic need to be present at only very low concentrations.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-NOV-1997;
28-JAN-1997;
28-JAN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 17 BP; 7 A; 0 C; 7 G; 3 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14-JAN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Solanidine; glucosyltransferase; potato; citrate synthase; target; hammerhead ribozyme; hairpin ribozyme; alkaloid biosynthesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RNA-cleaving activity (e.g. ribozymes) which are capable of modulating the expression of plant genes: (i) involved in biosynthesis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes enzymatic nucleic acid molecules with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 53; Page 53; 79pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New enzymatic nucleic acid(s) - useful for, e.g. reducing alkaloid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         McSwiggen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-JUL-1998.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Solanum tuberosum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              flower formation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Potato citrate synthase target sequence position 543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAV96481;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAV96481 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1821 GAAGATGTTGAAAGATG 1837
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      or regulating flowering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   97US-0979416.
97US-0036545.
97US-0036599.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Zwick MG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98WO-US00738
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cleavage; solanaceous plant; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15.4; Pred. No. 99;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .
DB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>ب</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
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Query Match

Sequence

17

BP; 4 A; 5 C; 2

G; 6 U; 0

other;

1.18;

Score 15.4; DB 1;

Length 17

RESULT 62 AAX60990/c ID AAX609

AAX60990 standard; cDNA to mRNA; 19

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RESULT 61
ABQ81992/c
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                                                                                                               Matches
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                                                                Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity
                                                                                                                                                  The present invention describes a method for determining if an individual has a tumour cell or site of angiogenesis, or if a treatment is effective in changing angiogenesis or changing a status of a set of target cells, comprising angiogenesis or changing a status of a set of target cells, comprising determining if a sample of the subject has an expression product of at least one marker gene. Also described is a compound capable of altering the expression or activity of keratin 14, TIE 1, Salioadhesin or Siglec in a cell. Peripheral blood mononuclear cell (PBMC)-expressed Keratin 14, TIE 1, Salioadhesin or Siglec, and kits containing them from the present invention can be used in a diagnostic method, particularly as an indicator of angiogenesis or to determine within a few days if a certain treatment against Kaposi's Sarcoma is successful. ABQ81851 to ABQ82006 represent nucleotide sequence used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                       Determining presence of a tumor cell or angiogenesis, and the effectiveness of treatment, by detecting the presence of marker genes is useful to detect and monitor treatment of Kaposi's Sarcoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABQ81992 standard;
                                                                                                            Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; Kaposi's sarcoma; tumour; angiogenesis; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kaposi's Sarcoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19-NOV-2002
                                                                                                                                                                                                                                                                                                                                                              Example 10; Page 24; 38pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-668396/72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23-JAN-2001;
28-SEP-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23-JAN-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EP1225233-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (AMST-) AMSTERDAM SUPPORT DIAGNOSTICS
                         2413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2470 TACATGATGATGAGGGA 2486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17
                                                    l Similarity
16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16;
                                                                                                                                            invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kuyl AC,
                  AAGCTGCTGAAGGAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TACATGATGATCAGGGA 1
                                                                                                            BP;
                                                   1.1%;
ilarity 94.1%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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2001EP-0203703.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2002EP-0075264.
                                                                                                              2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TAG PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cornelissen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                              8 C; 3 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             94.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No. 99;
                                                                   Score 15.4;
Pred. No. 1.
                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO:142.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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                                                                     .1e+02;
                                                                               DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1:
                                                                                 Length 18;
                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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                                                      Gaps
                                                         0
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RESULT 63
ABK71996/c
ID ABK719
XX
AC ABK719
XX
AC ABK719
XX
DT 30-JUL
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                                                                                                                                                                                          á
                                                                                                                                                                                                                                                                                                                                                  CC responsible for the light hypersensitive mutant phenotype in Solanum CC lycopersicum (tomato) plants, the phenotype comprising a reduced growth CC of the plant associated with high levels of carotenoids and/or control associated with high levels of carotenoids and/or control associated with high levels of carotenoids and/or carott, control grape, melon, rice, carrott, spinach, citrus, pomacea or ornamental control grape, melon, rice, carrott, spinach, citrus, pomacea or ornamental control and/or flavonoid contents. Carotenoids and flavonoids have carottenoid and/or flavonoid contents. Carotenoids and flavonoids have carottenoid and/or flavonoid contents. Carotenoids and flavonoids have carottenoid and/or flavonoid contents. Carotenoids exhibit a cole in plant protection cagainst pathogenic agents and uv light irradiation. Manipulation of the TDETI gene expression can also be used to modify anthocyanin and carotenoid content in ornamental species for the achievement of new colour variants. Alteration of carotenoid content is useful for improving resistance to Norfluzazon herbicides. Further it is possible to combine a condified TDETI activity with mutations such as rin, nor and Nr, which
                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                  Query Match
Best Local
 30-JUL-2002
                                     ABK71996;
                                                                      ABK71996 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tomato; TDET1 (HP-2) gene; light hypersensitive phenotype; mutation; carotenoid; chlorophyll; flavonoid; transgenic; TDETI gene; anthocyanin; agro-industrial; antioxidant; antitumoural; plant protection; variant; ornamental; herbicide; fruit ripening; PCR primer; ss.
                                                                                                                                                                                                                                                                                                        Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               result in a light hy responsible for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention describes a tomato TDET1 (HP-2) gene, which if modified result in a light hypersensitive phenotype. The gene, wen altered, is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 15; 57pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleotide sequences of the tomato TDET1 (HP-2) gene, which modified, results in a light hypersensitive phenotype
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1999-385610/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      09-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17-JUN-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tomato TDET1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               03-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAX60990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Lycopersicon sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (STAZ-) STAZIONE ZOOLOGICA DOHRN ANTON.
                                                                                                                                                                                            1816 GCCGTGAAGATGTTGAA 1832
                                                                                                                                                             19
                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                             GCCGTGAAGATGATGAA 3
                                                                                                                                                                                                                                                                                                                                         the fruit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mustilli
                                                                                                                                                                                                                                                                                                      BP; 4 A; 6 C; 3 G; 6 T; 0 other;
                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gene amplifying nested primer.
 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98WO-IT00350
                                                                                                                                                                                                                                                                                                                                     ripening process.
                                                                                                                                                                                                                                                  94.1%;
                                                                      ВP
                                                                                                                                                                                                                                 <u>..</u>
                                                                                                                                                                                                                                                Score 15.4; DB 1;
Pred. No. 1.2e+02;
                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                   Length 19
                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                               0
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                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                               0,
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Human; MTG16; tumour suppressor gene; 5-aza-2'-deoxycytidine; skin; cancer; DNA methylation; adenocarcinoma; leukaemia; lymphoma; melanom myeloma; sarcoma; teratocarcinoma; breast; prostate; liver; ovary; head and neck cancer; neuroectoderm; placenta; skeletal muscle; tons; lymph tissue; kidney; colon; uterus; testis; stomach; adrenal gland; bladder; bone; bone marrow; gall bladder; ganglia; salivary gland; gastrointestinal tract; parathyroid; penis; salivary gland; spleen; synovial membrane; thymus; thyroid gland; PCR; primer; ss.
Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                       Human MTG16 gene,
                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                           primer
                                                                                                                                                                                                                                                                                                                                                                                                                                           #31.
                                                                                                                                                                                                                                                                                                                        melanoma;
                                                                                                                                                                                                                                          tonsil;
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Callen DF, 01-SEP-2000; 2000AU-0009806 31-AUG-2001; 2001WO-AU01097. WO200218592-A1 (BION-) BIONOMICS LTD Whitmore SA, Kremmidiotis G, Kochetkova M, Crawford

Ç

Tumour suppressor gene which encodes polypeptide MTG16 active in suppressing cellular function associated with cancer, useful for manufacturing a medicament for treating cancer e.g. adenocarcino adenocarcinoma,

8; Page 67; 125pp; English.

The invention relates to an novel tumour suppressor gene (I) MTG16a or MTG16b and encoded polypeptide (II). (I) and (II), or a compound that mimics MTG16 activity such as 5-aza-2'-deoxycytidine, are useful for manufacturing a medicament for treating cancer, where it reverses DNA methylation. The cancer is adenocarcinoma, leukaemia, lymphoma, melanoma, myeloma, sarcoma, teratocarcinoma, and especially cancer of the breast, prostate, liver, ovary, head and neck, neuroectoderm, placenta, skeletal muscle, tonsil, lymph tissue, kidney, colon, uterus, testis, stomach, adrenal gland, bladder, bone, bone marrow, gall bladder, ganglia, adrenal gland, bladder, bone, bone marrow, gall bladder, ganglia, gastrointestinal tract, parathyroid, penis, salivary glands, skin, spleen synovial membrane, thymus and thyroid gland. (I) and (II) are useful for diagnosis of a cancer, or predisposition to cancer, by establishing a profile for normal expression of MTG16 in unaffected subjects using primers derived from (I). MTG16 is further useful for identifying interactions of the profile for more diagnosis of a cancer. interacting protein suitable as drug targets, where MTG16 is fused to a DNA binding domain and used as the bait in a yeast two-hybrid system. ABK71964-ABK72041 represent human MTG16 coding sequences and PCR primers of the invention.

Sequence 19 BP; 2 A; 6 C; 6 G; 5 T; 0 other;

RESULT 64
AAT31581/c
ID AAT315
XX
AC AAT315
XX
AC AAT315
XX
DT 25-SEF
XX 밁 Matches Query Match Best Local AAT31581 1935 CACACAGGATGGGCCTC 1951 17 1 Similarity
16; Conserv standard; DNA; 20 BP CACACAGGATGGGCCAC Conservative 1.1%; 0 Score 15.4; DB 1; Pred. No. 1.2e+02; Mismatches ..2e+02 Length 19; Indels ç Gaps

25-SEP-1996

(first entry)

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RESULT 65
AA169511/c
ID AA1695
XX AA1695
XX Intest
XX In
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Quantitative PCR analysis was performed using primers (AAT31580-81) to amplify mouse Ich-1, primers (AAT31582-83) to amplify human Ich-1, primers (AAT31584-85) to amplify human interleukin-1 beta converting enzyme (hICE), and control primers (AAT31586-87) for mouse beta-actin. Ich-1 is a new member of the ICE/ced-3 family of cell death genes. Ich-1L (see also AAT31552) and Ich-1S (AAT31533) were amplified simulataneously to produce DNA fragments of 234 and 295 bp, respectively. Expression of Ich-1S was detected in HeLa and Jurkat cells but not in THP.1 or U937 cells. Expression levels of Ich-1L increased in dying hybridoma D011.10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Preventing or promoting programmed cell death in vertebrate cells comprises inhibiting or increasing the activity of interleukin-1-beta converting enzyme, or altering expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           polymerase
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interleukin-1 bet
     19-OCT-1999;
                                                       19-OCT-1999;
                                                                                                          24-APR-2001
                                                                                                                                                            JP2001112485-A
                                                                                                                                                                                                               Bacteria
                                                                                                                                                                                                                                                               Intestinal
                                                                                                                                                                                                                                                                                                               Intestinal bacteria detection
                                                                                                                                                                                                                                                                                                                                                                    11-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                    AAI69511;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAI69511 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Expression levels cells.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (GEHO)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      04-JAN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-JUL-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO9620721-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1878 GGAGATGATGAAGATGA 1894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                primer for murine Ich-1 amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5; Page 77; 127pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GEN HOSPITAL CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGAGTTGATGAAGATGA
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                                                                                                                                                                                                                                                               bacteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                 (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  d-3 homologue; programmed cell death; apoptosis;
beta converting enzyme; gene therapy; primer; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      95US-0368704.
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     99JP-0296815
                                                       99JP-0296815
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1.1%;
                                                                                                                                                                                                                                                            detection;
                                                                                                                                                                                                                                                                                                                                                                 entry)
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44
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 15.4; DB 1;
Pred. No. 1.2e+02;
                                                                                                                                                                                                                                                                                                               primer SEQ ID NO:
                                                                                                                                                                                                                                                               PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                            primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
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RESULT 66
AAH20838
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local
This invention describes a novel method for the direct identification corganisms (A) in a biological sample which comprises (i) dividing the sample into many parts (B); (ii) immobilizing (A) in (B); (ii) contacting (B) with at least one labeled hybridization probe (HP) and (iv) detecting bound label. Different HP (or combinations of them) are used for each (B) and HP comprise a hybridization region that is complementary to a target sequence, available for hybridization within the cell, in (A)-specific nucleic acid. The method is used to identify (A), i.e. bacteria, fungi, protozoa or multi-cellular parasites, (i) in foods (or pharmaceuticals), for process or quality control and (ii) in
                                                                                                                                                                                                                                                                                                                                                                                                                                              Detection; probe; identification; food; pathogen; tuberculosis; subacterium; fungus; protozoa; multi-cellular parasite; infection; septic shock; necrotizing fasciitis; cystic fibrosis; meningitis; urogenital infection; fulminant endocarditis; ophthalmitis; ss.
                                                                                                                                                                           Direct and rapid identification of microorganisms, useful for determining pathogens that cause fulminant infections, based hybridization with labeled immobilized probes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (HONS )
                                                                                                                                                                                                                                                                                                                                                                                                                    Clostridium perfringens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2001-372656/39
                                                                                                                                                  Claim 27; Page 29; 38pp; German.
                                                                                                                                                                                                                                                          Apfel H,
                                                                                                                                                                                                                                                                                                               17-NOV-1999;
                                                                                                                                                                                                                                                                                                                                         17-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                   31-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                              DE19955303-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAH20838
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAH20838 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to the detection intestinal bacteria using the primers shown in present sequence is one of these primers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1;
                                                                                                                                                                                                                                                                                     (CREA-) CREATOGEN AG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 perfringens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for
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ZH YAKULT BIOSCIENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTTGAAAGATGATGCCA 1843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTTGAATGATGATGCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20 BP; 7 A; 5 C; 3 G; 5 T; 0 other;
                                                                                                                                                                                                                                                            Trebesius
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               intestinal bacteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15; 17pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 detecting probe Cloper.
                                                                                                                                                                                                                                                                                                               99DE-1055303
                                                                                                                                                                                                                                                                                                                                          99DE-1055303
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.1%;
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Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KENKYU ZAIDAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and
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                                                                                                                                                                                                                                                            Heesemann
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for detection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and identification AAI69501-AAI69547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tuberculosis; sepsis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20
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RESULT 67
AAS97941
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                  28-APR-2000;
28-JUL-2000;
10-NOV-2000;
The invention relates to an isolated polypeptide, comprising form of mouse or human SAC1 polypeptide. The variant form is with altered preference for carbohydrates, other sweeteners The polypeptide and its associated DNA sequence can be produre recombinant techniques and is useful for preventing obesity,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               with infections that need very quick diagnosis, especially septic shock, necrotizing fasciltis, sepsis, exacerbation of cystic fibrosis, urogenital infections during pregnancy, fulminant endocarditis, meningitis and ophthalmitis, but also for non-fulminant infections, e.g. tuberculosis, that requires quarantining of infected subjects. The method is sensitive, specific, simple (particularly no need for lysis, culturing or microscopy), produces reliable results in typically 3 hr, is relatively inexpensive, and can identify all potential pathogens associated with a particular disease. Compared with known in situ methods, sample sizes may be 10-20 times larger, increasing sensitivity by at least an order of magnitude. The method is suitable for routine use by non-expert personnel. NAH20833-AAH20866 represent probes described in the disclause of the invariance of the content of the method is suitable.
                                                                                                                           Novel isolated polypeptide comprising variant form of mouse SAC1 polypeptide, and is associated with altered preference carbohydrates or other sweeteners, useful for preventing obe
                                                                                       Claim 14;
                                                                                                                                                                                     WPI; 2002-075162/10.
                                                                                                                                                                                                                Ohmen
                                                                                                                                                                                                                                                         (WARN )
                                                                                                                                                                                                                                                                                                                                                         25-APR-2001;
                                                                                                                                                                                                                                                                                                                                                                                    08-NOV-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                          ds snw
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   obesity; diabetes; transgenic embryo; blood; tongue; PCR primer; anorectic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Murine SAC1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAS97941;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAS97941 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        clinical
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       disclosure of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mouse;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N
                                                                                                                                                                                                                                                         WARNER
MONELL
                                                                                                                                                                                                      , AA,
Reed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      replacement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTTGAAAGATGATGCCA 1843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          specimens,
                                                                                     Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTTGAATGATGCCA 18
                                                                                                                 alcoholism
                                                                                                                                                                                                                                                                                                  ; 2000US-200794P.
; 2000US-221419P.
; 2000US-247443P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene-specific oligonucleotide PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 5 A; 3 C; 6 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                         2001WO-US13387.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first
                                                                                                                                                                                                            Beauchamp GK,
Ross D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SAC1;
                                                                                                                                                                                                                                                         LAMBERT CO.
CHEM SENSES
                                                                                     93; 239pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              carbohydrate; sweetener;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       particularly for identifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1.1%;
                                                                                                                                                                                                                                                         CENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 15.4; DB 1;
Pred. No. 1.2e+02;
                                                                                                                                                                                                               Chatterjee A,
Tordoff MG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                etener; ethanol; alcoholism; ss;
body tissue; body fluid; pancreas;
antidiabetic; gene therapy;
                                                                                                                                                                                                                             Þe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        primer
                                                                                                                                                                                                                           Jong
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       pathogens associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
                                            comprising ant form is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
    obesity,
                 be produced
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #494
                                                                                                                                                                                                                            Pd,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20;
                                                                                                                              obesity,
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                                                                                                                                         for
                              유
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                                            a variant
                                                                                                                                                                                                                             ω
                              ethanol.
                                                                                                                                                         human
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RESULT 68
AAQ62462/c
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            screening for drugs and sweeteners. Recombinant cell lines and transgenic embryos may be used in screening for and identifying agents that induce or repress function of SAC1. Predisposition to diabetes, obesity or alcoholism can be ascertained by testing any fluid or tissue of a human (such as blood, pancreas or tongue) for sequence variations of the SAC1 gene. A sequence variation of the SAC1 locus may indicate a predisposition to diabetes, obesity and/or alcoholism and may provide a diagnostic mark. The polynucleotide can be detected in a biological sample by contacting the DNA with a probe to form a hybridisation complex sample by contacting the DNA with a probe to form a hybridisation complex
                                     primer P6(4) PTK-specific cDNA was synthesised. amplified using primers P6(4) and N5. A 2097 bp obtained. Primers E3, P12 and E6 were then used the C-terminal of the HEK2 receptor gene.
                                                                                                                                                                                                                                                                                                                                                                                                              Human embryonal kinase; HEK; protein tyrosine kinase; PTK; tumour; cancer; therapy; amplification; primer; polymerase chain reaction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         HEK-2
Sequence
                                                                                         RNA from human embryonic tissue was isolated.
                                                                                                                  Example 1; Page 10; 11pp; German.
                                                                                                                                             diagnosis
                                                                                                                                                        Human embryonal kinase
                                                                                                                                                                                                                                                                   07-OCT-1992;
                                                                                                                                                                                                                                                                                            07-OCT-1992;
                                                                                                                                                                                                                                                                                                                                                 DE4233782-A1.
                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-MAR-2003
09-NOV-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAQ62462;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAQ62462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                              Holtrich U,
                                                                                                                                                                                                                                                                                                                       14-APR-1994.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       alcoholism
                        (Updated
                                                                                                                                                                                                                                         (CHEM-) CHEMOTHERAPEUTISCHES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    is then detected. The sequences represent cDNA encoding human and SAC1 polypeptides and PCR primers specific for the SCA1 genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                          8
20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCTCAAGGAAGGACACA 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20 BP; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCTGAAGGAAGGACACA 2434
                                                                                                                                              and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    associated with SAC1 expression.
B₽;
                          25-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                              Ruebsamen-Waigmann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (updated)
(first en
                                                                                                                                              therapy
                                                                                                                                                                                                                                                                   92DE-4233782
                                                                                                                                                                                                                                                                                            92DE-4233782.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         primer
6
Þ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; 6.C; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   entry)
7 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     94.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          P6(4).
                                                                                                                                                         2-receptor
                          င်
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20
3 G; 4 T;
                        receptor gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           G; 2 T; 0 other;
                                                                                                                                                                                                                                         FORSCHUNG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 15.4; DB 1;
Pred. No. 1.2e+02;
                                                                                                                                                                                                              H, Strebhardt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                         protein
0 other
                          field.)
                                                                                                                                                          1
                                                                                                                                                          useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The
                                                                                        With the use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sequences are useful in
                                                 The cDNA was DNA fragment was in the isolation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
                                                                                                                                                          ij
                                                                                                                                                          tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
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                                                   of.
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Matches Query Match Best Local

Local

l Similarity 17; Conser

1.1%;

0

Score 15.2; DB Pred. No. 1.3e+0 0; Mismatches

.3e+02;

<u>,</u>

Length 20;

Indels

0

Gaps

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2323

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RESULT 70
AAT38287
ID AAT38
XX
XX
AC AAT38
AC AAT38
DT 25-MADT 14-MADT 14-MADT 14-MADT XX
DEGET XX
DEGET XX
DEGET XX
DEGET XX
DEGET XX
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                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JLT 69
64159/c
                                                                                                                                                                                                                                                                                                                protein tyrosine kinase receptor. The gene encoding the receptor i related to the trk proto-oncogene. Antibodies against the encoded polypeptide are useful for diagnosis and for the treatment of tumours. The antibodies may also be radiolabelled or coupled to a cytotoxin for destruction of cancer cells. Antisense nucleic acid can be used to inhibit gene expression.

(Updated on 25-MAR-2003 to correct PN field.)
Protein kinase; treatment; disorder; cancer; human; primer;
                         Degenerate
                                                   25-MAR-2003
14-MAY-1997
                                                                                          AAT38287;
                                                                                                                    AAT38287 standard; DNA; 20
                                                                                                                                                                                                                                                                                         Sequence 20 BP; 6 A; 7 C; 3 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                           Three primers (AAQ64159-Q64161) were used to amplify
                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; Page 8; 9pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New protein tyrosine kinase and transformed cells, etc., useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1994-184380/23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Holtrich U,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26-NOV-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26-NOV-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-JUN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DE4239817-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tyrosine kinase; receptor; proto-oncogene; trk; detection; diagnosis; antibody; treatment; tumour; antisense; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Primer for amplifying tyrosine kinase receptor coding sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-MAR-2003
03-FEB-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAQ64159;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAQ64159 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (CHEM-) CHEMOTHERAPEUTISCHES FORSCHUNG
                                                                                                                                                                                                    2323 AGTGATGTCTGGTCCTTCGG 2342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20
                                                                                                                                                                                    20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGTGATGTCTGGTCCTTCGG 2342
                                                                                                                                                                                    AGTGATGTCTGGACCTATGG 1
                         PCR
                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ruebsamen-waigmann H,
                                                  (updated)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (updated)
(first entry)
                         primer for protein kinase cDNA isolation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              92DE-4239817.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        92DE-4239817.
                                                                                                                                                                                                                                                  85.0%;
                                                                                                                                                                                                                                                               1.1%;
                                                                                                                    ВP
                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                    Score 15.2; DB 1;
Pred. No. 1.3e+02;
                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          related nucleic acid - vectors, for diagnosis and treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Strebhardt
                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                              regions of the
                                                                                                                                                                                                                                                                20
 PCR;
                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                      0
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RESULT 71
AAVO1150/c
ID AAVO11
XX AAVO11
XX AAVO11
XX AAVO11
XX PCR pr
XX PCR pr
KW PCR pr
KW Univer
XX Synthe
PN WO9731
XX Synthe
PN 28-AUG
XX 18-FEB
XX 18-FEB
XX 10NMI
PA (UNMI
PA (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    뮹
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    to abnormal PK activity, and cancer. Human foetal liver poly? was PCR amplified, and the products subcloned, sequenced and to produce the plasmids pLKB1-1 and pLKB1-2. When the coding region of pLKB1-1 was isolated by restriction digest, and ana by northern blotting against polyA+ RNA prepared from various human organs and cultured cells, weak expression was detected almost all tissue and cell types.

(Updated on 25-MAR-2003 to correct PA field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA encoding protein kinase - for potential treatment of protein kinase activity related disorders and cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9628554-A1
                       Brewer GJ,
                                                                                                                                                                                                                                                                                                         WO9731012-A1
                                                                                                                                                                                                                                                                                                                                                           Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer; polymerase chain reaction; ampuniversal mammalian sequence tagged site;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homeobox 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAV01150;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAV01150 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 5 A; 1 C; 4 G; 4 T; 6 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present sequence is a degenerate PCR primer for protein kinase (PK) cDNA isolation. The PK may be used to treat disorders related to abnormal PK activity, and cancer. Human foetal liver polyA+ RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example A-1; Page 23; 30pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1996-433826/43.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nezu J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19-SEP-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              foetal liver; degenerate; polymerase chain reaction; ss.
                                                                            (UNIMI)
                                                                                                                                                      22-FEB-1996;
                                                                                                                                                                                                     18-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-MAR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (CHUS )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1813 GTGGCCGTGAAGATGTTGAA 1832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   l Similarity
14; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    μ
                                                                            VIND
AIND
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTNGCNGTNAARATGYTNAA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR primer for universal mammalian STS's.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.1%;
ilarity 70.0%;
Conservative
                            Venta PJ,
                                                                         MICHIGAN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                      96US-0012061
                                                                                                                                                                                                        97WO-US02403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        95JP-0057104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          96WO-JP00660
                                                                               STATE.
                            Yuzbasiyan-Gurkan V;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2;
                                                                                                                                                                                                                                                                                                                                                                                                                                     reaction; amplification; UM-STS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 15.2;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ed. No. 1.3e+02;
Mismatches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                           genomic map;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sequenced and used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         was detected
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and analysed
                                                                                                                                                                                                                                                                                                                                                                                                              clone; ss.
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WPI;

1997-435083/40

making cross-species

comparisons

mammals -

useful

for

oligonucleotide primers amplifying gene regions conserved among

developing genomic maps, isolating clones and

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RESULT 72
AAVO1155
ID AAVO1
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mammalian sequence-tagged site (UM-STS) prito develop genomic maps, to isolate clones cross-species comparisons and to develop ac
                         The present sequence represents a specifically claimed oligonucleotide PCR primer. The oligonucleotide can be used for polymerase chain reaction (PCR) amplification of DNA, specifically regions of specific genes that are conserved among mammalian species, i.e. pairs of oligonucleotides from the present specification represent universal mammalian sequence-tagged site (UM-STS) primers. The primers are used to develop genomic maps, to isolate clones from libraries, to make
                                                                                                                                                                                                                                                                                              New oligonuclectide primers amplifying gene regions conserved among mammals - useful for developing genomic maps, isolating clones and making cross-species comparisons
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                                                                                                                                                                                                                                             Claim 1; Page 9; 26pp;
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17; Conserv
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MICHIGAN STATE.
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Pred. No. 1.
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.3e+02;
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                                     The invention provides a new method for identifying and characterising CC cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell; (b) determining in the first cell and the second cell the pattern of expression of genes in a selected gene family; and (c) calculating a proximity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its can individual, e.g. a fetus. They can also be used for determining the cell, its can individual, e.g. a fetus. They can also be used for containing cells capable of expressing an homeobox related desired property. The method uses reverse transcriptase polymerase chain creation (RT-PCR) for determining the pattern of gene expression in a selected gene family. Sequences AAZ17803-Z18342 represent primers that can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox genes, kinase genes, protein phosphatase genes, P450 enzyme genes, steroid
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29-DEC-1997;
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primer; ss.
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97IL-0122793.
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Pred. No. 1.
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                                         The invention provides a new method for identifying and characterising CC cells. The method for determining the genetic proximity of a first cell cc and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell; (b) determining in the first cell and the second cell the pattern cc continuity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its cc genetic status, whether it carries a genetic defect, or whether it is cc transformed. They can be used for detecting a selected genetic defect in an individual, e.g. a fetus. They can also be used for containing cells capable of expressing an homeobox related desired property. The method uses reverse transcriptase polymerase chain creaction (RT-PCR) for determining the pattern of gene expression in a cselected gene family. Sequences AA217803-Z818342 represent primers that can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox genes, kinase genes, protein phosphatase genes, P450 enzyme genes, steroid
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Best Local Similarity
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P-PSDB; AAY14630.
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                           genes, protein phosphatase genes, P450 enzyme genes, or superfamily genes or cadherin superfamily genes.
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97IL-0122793.
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85.0%;
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Pred. No. 1.
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Query Match

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                                                      The invention provides a new method for identifying and characterising CC cells. The method for determining the genetic proximity of a first cell cand a second cell comprises: (a) obtaining the first cell and the second CC cell; (b) determining in the first cell and the second cell the pattern of expression of genes in a selected gene family; and (c) calculating a CC proximity index using a specified formula. The methods can be used for CC characterising cells, e.g. for determining the origin of a cell, its CC genetic status, whether it carries a genetic defect, or whether it is CC transformed. They can be used for detecting a selected genetic defect in an individual, e.g. a fetus. They can also be used for determining the cells its CC chaining cells capable of expressing an homeobox related desired CC obtaining cells capable of expressing an homeobox related desired CC consisting cells capable of expressing an homeobox related desired CC can be used in the RT-PCR to determining the pattern of gene expression in a caction (RT-PCR) for determining the pattern of gene expression in the gene family. Sequences AAZ17803-Z18342 represent primers that CC can be used in the RT-PCR reactions to determine the pattern of gene cxpression. The gene family can be selected from a set of homeobox genes, CC kinase genes, protein phosphatase genes, P450 enzyme genes, steroid CC receptor superfamily genes or cadherin superfamily genes.
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29-DEC-1997;
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97IL-0122793.
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                                                                                                                                                                                 Sequence 20 BP; 6 A; 3 C; 4 G; 7 T; 0 other;
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P-PSDB; AAY14634.
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                                        2194 AAAATAGCAGACTTTGGACT 2213
                                                                                                              Similarity
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RESULT 78 AAZ18103

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RESULT 77
AAZ18101
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                                                                  Matches
                                                                                               Query Match
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29-DEC-1997;
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                                                                l Similarity
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AAAATTGCAGATTTTGGCCT
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Pred. No. 1.3e+02
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RESULT 79
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AAZ18105;
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                               AAZ18105 standard; DNA; 20 BP
                                                                                                                                                                                                                                                 Sequence 20
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29-DEC-1997;
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                                                                                                                                                 2194 AAAATAGCAGACTTTGGACT 2213
                                                                                                                   l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAY14638
                                                                                                                 AAAATTGCAGATTTTGGCCT 20
                                                                                                                                                                                                                                                 BP; 6
                                                                                                                                                                                  Conservative
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97IL-0122793.
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                                                                                                                                                                                                                                                 A; 3 C; 4 G; 7 T; 0 other;
                                                                                                                                                                                              1.1%;
                                                                                                                                                                                  0;
                                                                                                                                                                                                Score 15.2; DB 1;
Pred. No. 1.3e+02;
                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                Length 20;
                                                                                                                                                                                  Indels
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RESULT 80
AAZ18091
ID AAZ18
XX
AC AAZ18
XX
DT 11-OC
XX
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                                                                                                                                                                                                                                                                                                   CC cells. The method for determining the genetic proximity of a first cell cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell; (b) determining in the first cell and the second cell the pattern of expression of genes in a selected gene family; and (c) calculating a clarity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its cransformed. They can be used for detecting a selected genetic defect in an individual, e.g. a fetus. They can also be used for determining the corporaty. The method uses reverse transcriptase polymerase chain creation (RT-PCR) for determining the pattern of gene expression in a caction (RT-PCR) for determining the pattern of gene expression in a celected gene family. Sequences AAZ17803-Z18342 represent primers that capted in the RT-PCR reactions to determine the pattern of gene capters, protein phosphatase genes, P450 enzyme genes, steroid creeptor superfamily genes or cadherin superfamily genes.
                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                  Query Match
Best Local
                                              AAZ18091;
                                                                           AAZ18091 standard;
                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying and characterizing cells by comparing the gene expression in a selected gene family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 4; Page 42; 102pp; English.
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29-DEC-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             kinase gene; protein phosphatase; P450; steroid receptor; cadherin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  genetic
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                                                                                                                                                                                                                  Local Similarity
nes 17; Conserv
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                                                                                                                                                        AAAATTGCAGATTTTGGCCT 20
                                                                                                                                                                                                                                                                              20 BP; 6 A;
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ilarity 85.0%;
Conservative
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97IL-0122793.
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                                                                           DNA;
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Pred. No. 1.3e+02;
                                                                                                                                                                                                                                                                                7 T; 0 other;
                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                               Length 20,
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11-OCT-1999

(first entry)

PTK 1

gene specific

primer.

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                                                                                                                                             AAZ18185
                                                                                                                                                             RESULT 81
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                                                                                                                                                                                                                                                                      Matches
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Best Local S
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genetic defec
kinase gene;
Genetic proximity; gene expression; cell characterisation; homeobox gene
                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                             can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox guinase genes, protein phosphatase genes, P450 enzyme genes, steroid
                              PTK 28 gene specific primer.
                                                                11-OCT-1999
                                                                                                 AAZ18185
                                                                                                                           AAZ18185 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                             receptor superfamily genes or cadherin superfamily genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 4; Page 42; 102pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying and characterizing cells by comparing the pattern gene expression in a selected gene family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1999-419113/35
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29-DEC-1997;
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                                                                                                                                                                                                                            2194 AAAATAGCAGACTTTGGACT 2213
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defect; reverse transcriptase polymerase chain reaction; RT-PCR;
gene; protein phosphatase; P450; steroid receptor; cadherin;
                                                                                                                                                                                                                                                                                   Similarity
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                                                                                                                                                                                                                                                                                                                                   20 BP; 8
                                                                                                                                                                                                          AAAATTGGAGACTTTGGAAT 20
                                                                                                                                                                                                                                                                     Conservative
                                                                (first
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97IL-0122793.
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                                                               entry)
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Pred. No. 1.3e+02;
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                                                                                                                                                                                                                                                                                                                                 other;
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                                                                                                                                                                                                                                                                  Gaps
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RESULT 82
AAZ18183
ID AAZ18
XX AZ18
AC AZ18
XX I1-OC
DT 11-OC
XX PTK 2
XX Genet
KW Genet
KW kinase
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KW prime
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                                                                                                                                                                                                                                                                                                                                                           Matches
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Best Local
            Genetic proximity; gene expression; cell characterisation; homeobox gene; genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR; kinase gene; protein phosphatase; P450; steroid receptor; cadherin;
                                                                                                                                                                                                AAZ18183 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                        PTK 27
                                                                                                                           11-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                kinase genes, protein phosphatase genes, P450 enzyme genes, receptor superfamily genes or cadherin superfamily genes.
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29-DEC-1997;
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kinase gene; protein phosphatase; P450; steroid receptor; cadherin;
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                                                                                      gene
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                                                                                      specific primer.
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                                                                                                                         (first entry)
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97IL-0122793.
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85.0%;
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Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                               0 other;
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                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
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RESULT 83
AAZ18181
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            transformed. They can be used for detecting a selected genetic defect in an individual, e.g. a fetus. They can also be used for determining the effect of a selected treatment on a test cell. They can also be used for obtaining cells capable of expressing an homeobox related desired property. The method uses reverse transcriptase polymerase chain reaction (RT-PCR) for determining the pattern of gene expression in a selected gene family. Sequences AAZ17803-Z18342 represent primers that can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox genes, kinase genes, protein phosphatase genes, P450 enzyme genes, steroid
                                                          Genetic proximity; gene expression; cell characterisation; homeobox gene; genetic defect; reverse transcriptase polymerase chain reaction; RT-PCR; kinase gene; protein phosphatase; P450; steroid receptor; cadherin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          of expression of genes in a selected gene family, and (c) calculating a proximity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its genetic status, whether it carries a genetic defect, or whether it is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cells. The method for determining the genetic proximity of a first cell and a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell the pattern
Synthetic. Homo sapiens.
                                                                                                                           PTK 26 gene specific primer
                                                                                                                                                               11-OCT-1999
                                                                                                                                                                                                                         AAZ18181 standard; DNA; 20 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 4; Page 46; 102pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying and characterizing cells by comparing the pattern gene expression in a selected gene family
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P-PSDB; AAY14718.
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29-DEC-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  superfamily genes or cadherin superfamily genes
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97IL-0122793.
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85.0%;
                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
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Pred. No. 1.
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RESULT 84
AAX95953
ID AAX95
XX AAX95
XX AAX95
XX T3-SE
XX T3-SE
XX Respi
KW Respi
KW Wacci
XX Vacci
XX

03-JUN-1999

Chlamydia pneumoniae

vaccine; neutralising epitope; PCR primer; ss.

purulent

otitis media;

Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis;

erythema nodosum; pharyngitis;

PCR primer used to amplify an ORF of Chlamydia pneumoniae.

AAX95953;

AAX95953 standard; DNA;

20 ВP

13-SEP-1999

(first entry)

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                                                                                                                                                                                                                               The invention provides a new method for identifying and characterising CC cells. The method for determining the genetic proximity of a first cell cand a second cell comprises: (a) obtaining the first cell and the second cell; (b) determining in the first cell and the second cell, (b) determining in the first cell and the second cell the pattern of expression of genes in a selected gene family; and (c) calculating a comprision of genes in a selected gene family; and (c) calculating a comproximity index using a specified formula. The methods can be used for characterising cells, e.g. for determining the origin of a cell, its compromed. They can be used for determining the origin of a cell, its compromed. They can be used for determining the cell ransformed. They can be used for determining the cell selected for estected genetic defect in compromers. The method uses reverse transcriptase polymerase chain compromers chain compromers chain compromers. Sequences AA217803-218342 represent primers that can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox genes, chiange genes, can also be represented to the compromers that can be used in the RT-PCR reactions to determine the pattern of gene expression. The gene family can be selected from a set of homeobox genes, chiange genes, are represented.
                                                                                Matches
                                                                                                 Query Match
Best Local
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                                                                                                                                                        Sequence 20 BP; 8 A; 1 C; 5 G; 6 T; 0 other;
                                                                                                                                                                                                kinase genes, protein phosphatase genes, P450 enzyme genes, steroid receptor superfamily genes or cadherin superfamily genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying and characterizing cells by comparing the pattern gene expression in a selected gene family
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29-DEC-1997;
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                                      2194 AAAATAGCAGACTTTGGACT 2213
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                                                                              l Similarity
17; Conserv
  AAAATTGGAGACTTTGGAAT 20
                                                                                Conservative
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97IL-0122793.
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                                                                                                 1.1%;
85.0%;
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                                                                                                   Score 15.2; DB 1
Pred. No. 1.3e+02
                                                                                Mismatches
                                                                                                                      DB 1;
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AAC62208
ID AAC6
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AC AAC6
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AC AAC6
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DE PCR
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W AAT:
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KW Lym
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PN WO2
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Matches
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                                                                         Detecting metas
or determining
Example; Page 50;
                                              comprises detecting the expression
                                                                                                                                                           WPI; 2000-687067/67
                                                                                                                                                                                                                                                                                                                   13-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antisense oligonucleotide; flt-4; receptor type tyrosine kinase; lymphangioenesis; prostate cancer; prostate cell; PCR primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCR primer used to
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21-NOV-1997;
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                                                                                                                                                                                                                                                             NORTHWEST
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                                              metastatic potential, diagnosing metastatic prining the prognosis of a subject with prostate detecting the expression of fit-4 in a prostat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 5 A; 5 C; 4 G; 6 T; 0 other;
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97FR-0014673
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78pp; English
                                                                                                                                                                                                                                                               BIOTHERAPEUTICS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cDNA encoding flt-4.
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Pred. No. 1.3e+02;
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                                                                                                    cancer
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RESULT 86
AAS08729/c
ID AAS087
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∞¥ព្រះព្រះ
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Best Local Similarity
Matches 17; Conserv
The sequence represents a splice site within a DNA molecule encoding human PD-ATT-binding cassette (PD-ABC) protein. PD-ABC maps to chromosome 19913 3 and is expressed in various tissues including spleen, thymus, peripheral blood leukocytes, bone marrow and lymph nodes. The PD-ABC DNA molecules and proteins are used to diagnose and treat cardiovascular disorders, inflammatory disorders, dyslipidaemia, epilepsy, diseases related to abnormal calcium flux, coronary artery disease, Tangler's disease, familial high-density lipoprotein deficiency, atherosclerosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primers AAC62208-09 were used to amplify cDNA encoding flt-4. Flt-4 is a receptor type tyrosine kinase with 7 [g-like domains similar to other VEGF receptors. Flt-4 may play a role in lymphangioenesis. Antisense oligonucleotides can be used for detecting the metastatic potential, diagnosing metastatic prostate cancer or determining the prognosis of a subject with prostate cancer. The method comprises identifying the prostate cell in a body fluid sample and detecting the expression of flt-4 in the cell. Expression of flt-4 in a prostate cell indicates that the cell is a cancerous prostate call that has metastatic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PD-ATP-binding cassette; PD-ABC; chromosome 19p13.3; spleen; thymus; ds; peripheral blood leukocyte; bone marrow; lymph node; dyslipidaemia; cardiovascular disorder; inflammatory disorder; abnormal calcium flux; epilepsy; coronary artery disease; Tangier's disease; atherosclerosis; familial high-density lipoprotein deficiency; fatty liver disease; atherosclerosis; diabetes; insulin resistance; obesity; drug screening; atherosclerosis; diabetes; insulin resistance; obesity; drug screening;
                                                                                                                                                                     Disclosure; Page 37; 77pp; English.
                                                                                                                                                                                                                         New Human PD-ABC DNA molecules and proteins for diagnosis and treatment of dyslipidaemia, epilepsy and diseases related to abnormal calcium flux
                                                                                                                                                                                                                                                                                  WPI; 2001-442259/47.
                                                                                                                                                                                                                                                                                                                                                                                           24-JAN-2000;
30-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 alcoholism; retinal
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                                                                                                                                                                                                                                                                                                                   Tafuri SR,
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2000US-0215405
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 degeneration; hypertension; vascular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.1%;
85.0%;
                                                                                                                                                                                                                                                                                                                   Wang
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Pred. No. 1.3e+02
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RESULT 87
AAS08820/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
      Matches
                                                                                                      19p13.3 and is expressed in various tissues including spleen, thymus, peripheral blood leukocytes, bone marrow and lymph nodes. The pp-ABC DN molecules and proteins are used to diagnose and treat cardiovascular disorders, inflammatory disorders, dyslipidaemia, epilepsy, diseases related to abnormal calcium flux, coronary artery disease, Tangiar's disease, familial high-density lipoprotein deficiency, atherosclerosis, diabetes, fatty liver disease, insulin resistance, obesity, alcoholism, retinal degeneration, hypertension and vascular disease. The sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PD-ATP-binding cassette; PD-ABC; chromosome 19p13.3; spleen; thymus; ds peripheral blood leukocyte; bone marrow; lymph node; dyslipidaemia; cardiovascular disorder; inflammatory disorder bonormal calcium flux; epilepsy; coronary artery disease; Tangier's disease; atherosclerosis; familial high-density lipoprotein deficiency; fatty liver disease; atherosclerosis; diabetes; insulin resistance; obesity; dryg screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             diabetes, fatty liver disease, insulin resistance, obesity, alcoholism, retinal degeneration, hypertension and vascular disease. The sequences
                                                                 Sequence 20
                                                                                                                                                                                                                                                                           Disclosure; Page 39; 77pp; English.
                                                                                                                                                                                                                                                                                                                     New Human PD-ABC DNA molecules and proteins for of dyslipidaemia, epilepsy and diseases related
                                                                                                                                                                                                                                                                                                                                                                                              Johns MA,
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30-JUN-2000;
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                    Local
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1.1%;
cal Similarity 85.0%;
17; Conservation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20
                                                                                                                                                                                                                                quence represents a splice site within a DNA molecule encoding PD-ATP-binding cassette (PD-ABC) protein. PD-ABC maps to chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
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                                                                                                                                                                                                                                                                                                                                                                                              Tafuri SR,
                                                                 BP; 3
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2000US-0215405.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             form 2 DNA exon 6 5' splice site.
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                                                               A; 8 C; 3 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      degeneration; hypertension; vascular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          entry)
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                                                                                           screening assays.
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      0; Mismatches
                  Score 15.2; DB 1;
Pred. No. 1.3e+02;
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Pred. No. 1.
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1.3e+02;
hes 3;
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to abnormal calcium flux
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                                                                                                                                                                                                  The PD-ABC DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to isolated genes (Gene 216) from human chromosome CC 20p13-p12 and the proteins they encode. The nucleic acids and proteins CC may be used in the prevention, diagnosis and treatment of diseases CC associated with inappropriate Gene 216 expression. For example, the CC nucleic acids (or vectors) and proteins may be used to treat disorders associated with decreased expression by rectifying mutations or deletions CC associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of gene 216 by expressing CC inactive proteins or to supplement the patients own production of Gene 216 proteins. Additionally, the nucleic acids may be used to produce the secreted Gene 216 protein, by inserting the nucleic acids into a host cell and culturing the cell to express the protein. The nucleic acids and complementary sequences may also be used as DNA probes in diagnostic and complementary sequences may also be used as BNA probes in need of cequences in samples and therefore which patients may be in need of creatorative therapy. The Gene 216 protein may also be used as antigens in the production of antibodies against Gene 216 and in assays to identify the protein of antibodies against Gene 216 anti-form 216
                                                              modulators of Gene 216 expression and activity. The anti-Gene 216 antibodies and antagonists may also be used to down regulate expression and activity. The anti-Gene 216 antibodies may also be used as diagnostic agents for detecting the presence of Gene 216 proteins in samples (e.g. by enzyme linked immunosorbant assay or ELISA). Disorders that may be prevented, diagnosed and/or treated by the above methods include, for example asthma, obesity and inflammatory bowel disease. The present sequence is that of a Gene 216 related primer used in examples of the invention. The primers are used in the physical mapping of the gene (ABZ72067-ABZ72088), polymorphism identification using single strand conformational polymorphism (SSCP) analysis (ABZ72091-ABZ72184), sequencing (ABZ72185-ABZ72268) and genotyping (ABZ72317-ABZ72382).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; Gene 216; chromosome 20p13-p12; antiasthmatic; anorectic; antiinflammatory; gastrointestinal; gene therapy; vaccine; asthmobesity; inflammatory bowel disease; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Isolated genes (Gene 216) from human chromosome 20p13-p12 and proteins they encode, useful for the prevention, diagnosis and treatment of asthma, obesity and inflammatory bowel disease -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gene 216 SSCP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2387
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ABT06120
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X
                                                                                                                                                                                                          CC Single Primer Amplification (SPA). The method comprises synthesising a CC template nucleic acid containing a predetermined sequence and hairpin CC structure with the nested oligonucleotide extension reaction. The method CC is useful for amplifying a nucleic acid, preferably for amplifying a CC family of related nucleic acid sequences to build a complex library of CC polypeptides encoded by the sequences. The engineered nucleic acid strand CC is useful for amplifying a nucleic acid strand by providing a nucleic ccid sequence complementary to the predetermined sequence and a hairpin CC with a primer containing at least a portion of the predetermined sequence. This process is done in the presence of a polymerase and CC complementary nucleic acid strand. The method of the invention is useful for producing large amounts of a target nucleic acid sequence and for amplifying simultaneously more than one different target nucleic acid complementary because or different nucleic acid molecules. This process is done in the presence of a polymerase and cc complementary nucleic acid strand. The method of the invention is useful cfor producing large amounts of a target nucleic acid sequence and for amplifying simultaneously more than one different target nucleic acid complemental contaction on the same or different acid molecules. This polymerase and cc complemental contaction and contaction and contaction of a target nucleic acid sequence and for amplifying simultaneously more than one different target nucleic acid contaction 
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                                                                                                                                      Sequence 20 BP; 4 A; 5
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19-SEP-2001;
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      17;
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      Conservative
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2001US-323400P
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Pred. No. 1.3e
0; Mismatches
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                              1.3e+02;
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1858 TCTGATCTGGTGTCAGAGAT 1877

Best Local Similarity

1.1%; w

Score 15.2; DB 1; Pred. No. 1.3e+02;

Length

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Query Match

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RESULT 90
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This invention relates to a series of nucleic acid oligomers for amplifying and detecting a nucleotide sequence of human immunodeficiency virus type 1 (HIV-1). The invention also comprises a labeled oligonucleotide that specifically hybridises to an HIV-1 sequence derived from gag or pol sequences, having one of the sequences fully defined in the specification, and a method for detecting HIV-1 in a biological sample, comprising mixing the sample with two or more of the amplification oligomers that specifically amplify at least one HIV-1 target sequence within gag and a pol sequence which is a protease or reverse transcriptase sequence, amplifying the target, and detecting the amplified product. The oligonucleotides of the invention may be used to diagnose HIV-1 infection. The presents sequence represents a PCR primer used to amplify the HIV-1 protease gene in the HIV detection method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                         New nucleic acid oligomers for amplifying a nucleotide sequence from HIV-1 and probes for detecting the amplified product are specific for gag and pol regions and are useful to detect different subtypes of HIV-1 -
                                                                                                                                                                                                                                                                                                                                                             Claim 1; Page 17; 37pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Yang YY,
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BABOLA O.
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VERNET G.
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/mod_base= gm
/note= "2'-O-methylguanosine"
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/mod_base=
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"OTHER= 2'-O-methyladenosine"
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RESULT 91
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              New antisense oligonucleotides targeted to nucleic acid encoding MAP/ERK kinase kinase 3 (MEKK3), useful for inhibiting the expression of MEKK3 and for treating a disease or condition associated with the
                                                                                                                                                                                                                                                                                                                               modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; MAP/ERK kinase kinase 3; MEKK3; mitogen activated protein kinase; MAP; ERK; extracellular signal regulated kinase; infection; cytostatic; antisense therapy; tumour formation; phosphorothioate backbone;
         expression of MEKK3
                                                  WPI; 2002-329863/36
                                                                    Ward DT,
                                                                                     (-SISI)
                                                                                                     08-SEP-2000; 2000US-0658688
                                                                                                                      07-SEP-2001; 2001WO-US28118
                                                                                                                                        14-MAR-2002.
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RESULT 92
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to antisense oligonucleotides targetted to nucleic acids encoding mitogen activated protein kinase (MAP)/extracellular signal regulated (ERK) kinase kinase 3 (MEKK3) or a splice variant of MEKK3. MEKK3 is an ubiquitously expressed serine-threonine kinase and activates only the ERK and JNK/SAPK pathways. The antisense compound is useful for inhibiting the expression of MEKK3 and for treating a disease or condition associated with the expression of MEKK3. These may also be used as research reagents and diagnostics, to distinguish between functions of various members of a biological pathway, and in the treatment of a disease or disorder, which can be treated by modulating the content of a disease or disorder, which can be treated by modulating
                       New nucleic acid oligomer, useful for detecting selected regions of gag and pol genes of human immune deficiency virus, particularly for assessing drug resistance -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HIV-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the expression of MEKK3. The antisense compounds are further useful prophylactically, e.g. to prevent or delay infection, inflammation or tumour formation, and as probes or primers. The present sequence is an antisense oligonucleotide targetted towards human MEKK3 cDNA.
Claim 1; Page 43; 82pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 6 A; 5 C; 5 G; 4 T; 0 other;
                                                                                        WPI; 2002-292273/33.
                                                                                                                 Yang YY,
                                                                                                                                                                                           01-SEP-2000; 2000WO-US24117.
                                                                                                                                                                                                                         01-SEP-2000; 2000WO-US24117.
                                                                                                                                                                                                                                                                                     WO200220852-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  immunodeficiency virus type 1
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ss.
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                                                                                                                                                 GEN-PROBE INC
BIOMERIEUX SA
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/mod_ba
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/note= "2'-O-methylthymidine"
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                                                                                                                  Babola O,
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Pred. No. 1
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RESULT 93
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Best Local
         This invention relates to a novel isolated nucleic acid, gene 216, identified from human chromosome 20p13-p12. The invention also disclos regions of the 216 gene that contain single nucleotide polymorphisms (SNP's) which may be used as markers for disease susceptibility or severity. The nucleotides of the invention may have antisthmatic, antiinflammatory or anorectic activities and may have antisthmatic, shrininflammatory or anorectic activities and may be used in gene therapy. The nucleic acids, antibodies or its fragments are useful for disgnosing, preventing or treating a disorder, such as respiratory diseases (e.g. asthma, bronchial hyper-responsiveness, chronic obstructive pulmonary disease or adult respiratory distress syndrome), obssity, or inflammatory bowel syndrome. The nucleic acids are also
                                                                                                                                                                                                                                                                                                                            Keith T,
Simon J,
                                                                                                                                                                                                                                   New isolated gene 216 nucleic acids, useful for diagnosing, preventing or treating a disorder, such as asthma, bronchial hyper-responsiveness, chronic obstructive pulmonary disease, obesity or inflammatory bowel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention provides a number of nucleic acid oligomers which can be used to amplify the gag and pol genes of human immunodeficiency virus type I (HIV-1). These are used to detect regions of the gag and pol genes, especially regions associated with drug resistance, and also for identifying genetic subtypes of the virus. The present sequence is an oligomer of the invention.
                                                                                                                                                                                                                                                                                                                                                                         (SCHE )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SNP; gene therapy; respiratory disease; asthma; obesity; PCR; bronchial hyper-responsiveness; chronic obstructive pulmonary disease; adult respiratory distress syndrome; inflammatory bowel syndrome.
                                                                                                                                                                                         Example 10; Page 155; 650pp; English.
                                                                                                                                                                                                                                                                                                  WPI; 2003-092960/08
                                                                                                                                                                                                                                                                                                                                                                                                                  13-APR-2001;
13-APR-2001;
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17; Conserv
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GENOME THERAPEUTICS
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Allen K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ge; ss; primer; gene 216; antiasthmatic; antiinflammatory;
chromosome 20p13-p12; single nucleotide polymorphism:
identifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                    2001US-0834597.
2001WO-US12245.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first
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andit S;
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Pred.
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susceptibility of a
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.3e+02;
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o discloses
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RESULT 94
AAX66311
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Matches
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                                                                                                                                                          Enzymatic nucre.

for the treatment of arc.

---ment of auto-immune d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Arthritic condition; graft tolerance; i hammerhead ribozyme; hairpin ribozyme; stromelysin; synovial membrane; joint;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              disorders mentioned. The nucleic acids can also be used as primers a templates for the recombinant production of disorder-associated peptides or polypeptides, for chromosome and gene mapping, or for tissue distribution studies. The present sequence represents a gene 216 specific PCR primer used in the scope of the invention.
                                                                                                                                                                                                                                                                                                                         Draper K, Gustofson J, McS
Beigelman L, Karpeisky A, I
Matulic-Adamic J, Jarvis T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                     WPI; 1996-300653/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-JUL-1995
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23-DEC-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17-FEB-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                  (RIBO-) RIBOZYME
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17; Conserv
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                                                                                                                                                                                                                  nucleic acid molecules having a reatment of arthritis, induction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     arthritis;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                          95US-0000974
95US-0512861
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95US-0432874
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94US-0363254.
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94US-0354920.
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                                                                                                                                                                                                                                                                                                                                                                                                                  PHARM INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   membrane; autoimmune
                                                                                                                                                                                                                                                                                                                         McSwiggen J, Pavcc
A, Modak A, Usman
B T, Thompson JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15.2;
No. 1.
                                                                                                                                                                                                                                                                                                                      Pavco P, Surgin P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           immune response; target; cleavage;
human; rabbit; mouse; collagenase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 arthritis; osteoarthritis;
se; allergy; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .3e+02
                                                                                                                                                                                                               hammer-head of graft tol
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                                                                                                                                                                                                                                                                                                                                                                        Stinchcomb
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tolerance c
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The present invention describes a novel enzymatic nucleic acid (ENA) having a hammerhead motif (HM) comprising: (i) at least 5 ribose residues; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii at least ten 2'-O-methyl modifications; and (iv) a 3'-end modification. The ENA's can inhibit collagenase and stromelysin production in the

membrane of joints for the treatment or prevention of

arthritis

(iii)

10; Page 198; 307pp; English

diseases

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RESULT 95
AAX66312
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Best Local
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13-DEC-1994;
23-DEC-1994;
23-DEC-1994;
23-DEC-1994;
17-FEB-1995;
02-APR-1995;
02-APR-1995;
                                                                                                                                                                                04-MAY-1995;
07-JUL-1995;
07-JUL-1995;
07-AUG-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  particularly osteoarthritis or rheumatoid arthritis. The ENA's can also be used to treat antigen presenting cells of a donor to induce tolerance in a recipient to an alloantigen of a donor. They can also be used for reating graft tolerance or for treating autoimmune disease, and for treating allorgies and other inflammatory conditions. The ENA's can also be used in diagnosis. Ribozyme therapy impacts on the expression of stromelysin without introducing the non-specific effects upon gene expression which accompany treatment with retinoids and dexamethasone. The concentration of ribozyme required to affect a therappeutic treatment is lower than that required of antisense molecules, and is highly specific. The present sequence is used in the exemplification of the
                                                                                                                    Draper K,
Beigelman
Claim 10; Page 198; 307pp; English
                                        Enzymatic nucleic acid molecules having a for the treatment of arthritis, induction
                                                                             WPI; 1996-300653/30
                                                                                                     Beigelman L, Kar
Matulic-Adamic J,
                                                                                                                                                                                                                                                                                                                                       22-NOV-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                  MUB
                                                                                                                                                                                                                                                                                                                                                                                                                                            diagnosis; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                         rheumatoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Arthritic condition; graft tolerance; immune response; target; cleavage; hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; collagenase; stromelysin; synovial membrane; joint; arthritis; osteoarthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mouse B7-2 hammerhead ribozyme target SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-JUL-1999
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                                                                                                                                                         (RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local
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                                                                                                                                                         RIBOZYME PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention.
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                            of auto-immune
                                                                                                                               Gustofson J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                      arthritis; autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 5
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                                                                                                     Karpeiský A, l
c J, Jarvis T,
                                                                                                                                                                               94US-0363253.
94US-0363564.
95US-0390850.
95US-0426124.
95US-0434879.
95US-0409951.
95US-0000951.
95US-0000974.
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                                                                                                                                                         INC
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                                                                                                   McSwiggen J, Pavco P, Sti
A, Modak A, Usman N, Burg
Ls T, Thompson JD, Wincott
                            diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                      disease; allergy; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    other;
                                                                                                                         Pavco P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
                                      hammer-head motif - of graft tolerance of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NO:2944.
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                                                                                                       Burgin
cott F;
                                                                                                                                Stinchcomb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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RESULT 96
AAX66313
ID AAX66
AX AAX66
XX AAX66
AX AAX66
AX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CC The present invention describes a novel enzymatic nucleic acid (ENA)
CC having a hammerhead motif (HM) comprising: (i) at least 5 ribose
CC residues; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii)
CC at least ten 2'-O-methyl modifications; and (iv) a 3'-end modification.
CC The ENA's can inhibit collagenase and stromelysin production in the
CC synovial membrane of joints for the treatment or prevention of arthritis,
CC particularly osteoarthritis or rheumatoid arthritis. The ENA's can also
CC be used to treat antigen presenting cells of a donor to induce tolerance
CC in a recipient to an alloantigen of a donor. They can also be used for
CC enhancing graft tolerance or for treating autoimmune disease, and for
CC treating allergies and other inflammatory conditions. The ENA's can also
CC be used in diagnosis. Ribozyme therapy impacts on the expression of
CC stromelysin without introducing the non-specific effects upon gene
CC expression which accompany treatment with retinoids and dexamethasone.
CC The concentration of ribozyme required to affect a therapeutic treatment
CC specific. The present sequence is used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
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Best Local
                           Draper K, Gust
Beigelman L, K
Matulic-Adamic
                                                                                                                                                                                                                   02-MAY-1995;
04-MAY-1995;
07-JUL-1995;
07-JUL-1995;
                                                                                                                                                                                                                                                                                                                             23-DEC-1994;
17-FEB-1995;
20-APR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                        13-DEC-1994;
23-DEC-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rheumatoid arthritis; diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                05-OCT-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-NOV-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        stromelysin; synovial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 hammerhead ribozyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Arthritic condition;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mouse B7-2 hammerhead ribozyme target SEQ ID NO:2945.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-JUL-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAX66313 standard; RNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    present invention.
                                                                                                                                        (RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-JUN-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1373
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 AGGAGAUUACAGCUU 15
                                                                                                                                        RIBOZYME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15
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                                                                                Gustofson J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                              Karpeisky A,
                                                                                                                                                                                                                 94US-0363253
94US-0363254
95US-0390850
95US-0426124
95US-0432874
95US-043459
95US-0000951
95US-0000974
                                                                                                                                                                                                                                                                                                                                                                                                                                       95US-0541365
94US-0354920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     95WO-US15516.
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                                                                                                                                        PHARM INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             graft tolerance; immune response; target; cl
hairpin ribozyme; human; rabbit; mouse; coll
l membrane; joint; arthritis; osteoarthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 C; 4 G; 4 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          autoimmune disease; allergy; inflammation;
                         McSwiggen J, Pavcc
A, Modak A, Usman
is T, Thompson JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 15; DB 1; Pred. No. 97;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          immune response; target; cleavage;
                                                                                Pavco P,
                                 N, Burgin A; Wincott F;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ٥,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 15,
                                                                                      Stinchcomb DT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    collagenase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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WPI; 1996-300653/30

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RESULT 97
AAF52668
ID AAF52
XX AAF52
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes a novel enzymatic nucleic acid (ENA) CC having a hammerhead motif (HM) comprising: (i) at least 5 ribose CC residues; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii) CC at least ten 2'-O-methyl modifications; and (iv) a 3'-end modification. CC The ENA's can inhibit collagenase and stromelysin production in the synovial membrane of joints for the treatment or prevention of arthritis, CC particularly osteoarthritis or rheumatoid arthritis. The ENA's can also be used to treat antigen presenting cells of a donor to induce tolerance CC in a recipient to an alloantigen of a donor. They can also be used for treating allergies and other inflammatory conditions. The ENA's can also be used in diagnosis. Ribozyme therapy impacts on the expression of treating allergies and other inflammatory conditions. The ENA's can also be used in diagnosis. Ribozyme therapy impacts on the expression of Expression which accompany treatment with retinoids and dexamethasone. The concentration of ribozyme required to affect a therapeutic treatment is lower than that required of antisense molecules, and is highly specific. The present sequence is used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Antisense therapy; antiproliferative; antinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.
                                  WPI; 2001-041421/05
                                                                                                                                                                                                                                        21-JUN-1999;
                                                                                                                                                                                                                                                                                                    21-JUN-2000; 2000WO-AU00693.
                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200078341-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 10; Page 198; 307pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAF52668;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAF52668 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Enzymatic nucleic acid molecules having a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the
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                                                                                                                                                                      MURDOCH CHILDRENS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     treatment of arthritis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP; 4 A; 3 C; 4 G; 4 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                    Werther
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          auto-immune
                                                                                                                                                                                                                                        99US-0140345
                                                                                                    œ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1.1%;
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                                                                                                    Edmondson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 15; DB 1;
Pred. No. 97;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         induction of graft tolerance or
                                                                                                    SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            hammer-head motif -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <u>.</u>.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
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Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an annucleic acid that inhibits or reduces growth factor mediated
                                                                                                                                                        proliferation and/or inflammation -
                                                                                                                                        Page 84; 201pp;
                                                                                                                                         English.
                                                                                                                                                                        an antisense
                                                                                                                                                                cell
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, seleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other selerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia.

Sequence 15 B₽; 0 A; 4 C; 6 G; 5 T; 0 other;

Matches Query Match Best Local ( l Similarity Conservative 100.0%; 0; Score 15; Pred. No. Mismatches DB 1; 97; 0 Length 15; Indels ٥, Gaps 0

밁 ঠ 2329 GTCTGGTCCTTCGGG GTCTGGTCCTTCGGG 15

AAF52669 standard; DNA; 15

(first entry)

IGF-I oligonucleotide #3629.

RESULT 98
AAF52669
ID AAF52
XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrheea; ruba; keratosis; neoplasia; seleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor, 1 receptor; IGF-1; pityriasis; neovascular condition of the

28-DEC-2000.

21-JUN-2000; 2000WO-AU00693

21-JUN-1999; 99US-0140345.

(MURD-) MURDOCH CHILDRENS RES INST

Wraight CJ, Werther GA, Edmondson SR

WPI; 2001-041421/05

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an a nucleic acid that inhibits or reduces growth factor mediated an antisense

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RESULT 99
AAF52670
ID AAF52670
ID AAF52670
AAF52
XX AAF52
XX AAF52
XX Antis
KW Cytos
KW Gytos
KW Homo
KW Hoper

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               oligonucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein (IGFBB)-2 or IGFBB3), which is capable of inhibiting or reducing growth factor mediated cell proliferation,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
                                                                                                                                 Ameliorating the effects of a disorder, e.g. psoriasis, ladministering UV (ultra-violet) treatment (optional) and nucleic acid that inhibits or reduces growth factor media
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-JUN-2000; 2000WO-AU00693
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                                                                                                          proliferation and/or inflammation
                                                                                                                                                                                                                                                                                                                                                             (MURD-)
                                                                                                                                                                                                                                                                                                                                                                                                                 21-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-DEC-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200078341-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IGF-I oligonucleotide #3630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAF52670
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAF52670 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      present invention relates to a method for ameliorating the effects
                                                                                                                                                                                                                                                   2001-041421/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 vessels or any other hyperplasia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              l Similarity
15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4
                                                                                                                                                                                                                                                                                                                                                             MURDOCH CHILDRENS RES INST
                                                                                                                                                                                                                                                                                                          5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8; Page 84;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCTGGTCCTTCGGGG
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                                                                                                                                                                                                                                                                                                       Werther
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                                                                                                                                                                                                                                                                                                 GA,
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97;
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The present invention relates to a method for ameliorating the effects

Example

8; Page 84; 201pp; English

exocrine cells. The invention is useful in generating insulin-secreting cells from precursor stem cells or adult pancreatic exocrine cells is useful for generating glucose sensitive insulin secreting beta cells suitable for transplantation, and for in situ development of insulinsecreting cells in a patient. The method is also useful for preventing

effective to generate the insulin-generating cells from the precursor or

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RESULT 100
AAD47315/c
IID AAD47315/c
IID AAD47315/c
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XX AADA473
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Best Local
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                                                                                                                                                                                                              The invention relates to a method for generating insulin-secreting cells from precursor stem cells or adult pancreatic exocrine cells. The method comprises exposing the precursor cells or exocrine cells to: a nucleic acid molecule encoding neurogenin 3 (ngn3) or NeuroD/beta2; or an activator of ngn3 or NeuroD/beta2 gene expression, under conditions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Generating insulin-secreting cells from precursor stem cells or adult pancreatic exocrine cells, for generating glucose sensitive insulin secreting beta cells for transplantation, comprises using neurogenin3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  secreting beta cells
or NeuroD/beta2 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; insulin-secreting cell; neurogenin 3; ngn3;
pancreatic exocrine cell; transplantation; RT-PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAD47315 standard; DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Heimberg H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Page 36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 0 A;
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Pred. No.
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97;
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0

regulating excessive cell growth and division

(as in cancer therapy)

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RESULT 101
AAV60744/c
ID AAV60744;
XX
AC AAV60744;
XX
O8-DEC-1998 (first entry)
DT 08-DEC-1998 (first entry)
XX
DE Primer #2 for human CDK4 code
XX
PCR primer; amplification; cy
KW transcription terminator; cel
KW pCR primer; phosphorylation; cy
KW transcription terminator; cel
KW pCR primer; amplification; cy
KW cyclin kinase inhibitor; CKI;
XX
Synthetic.
OS Homo sapiens.
XX
Synthetic.
Syn Homo sapiens.
XX

PN W09816660-A1.
XX
Synthetic.
Syn Homo sapiens.
XX

I6-OCT-1996; 96US-0031968.
PR 16-OCT-1996; 96US-0031968.
PR 27-NOV-1996; 96US-0031968.
PR 27-NOV-1996; 96US-0029127.
XX

Bitter GA;
XX

KITT-) BITTECH INC.
XX

Bitter GA;
XX

WPI; 1998-251302/22.
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XX

Screening for agents that expre regulation through phosphory
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Screening for agents that expre regulation through phosphory
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Screening for agents that expre regulation through phosphory
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Example 4; Page 75; 93pp; En
XX

CC Primers AAV60743-V60745 were companied to codons 154-302 of contains a reporter generate a fusion protein companied to generate a fusion protein companied companied to codons 154-302 of cused to screen for compounds companied to codons 154-302 of cused to screen for compounds companied to codons 154-302 of cused to screen for compounds companied to codons 154-302 of cused to screen for compounds companied to codons 154-302 of cused to screen for compounds codons 154-302 of cused to screen for compounds codons 154-302 of cused to screen for compounds codons 154-302 of cused to codons 154-302 of cused to codons 154-302 of cused to id codons 154-302 of cused to id codons 154-302 of cused to id cused to id
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Primers AAV60743-V60745 were used to PCR amplify codons 1-163 of the chuman cyclin-dependent kinase 4 (hCDK4). The amplified product was used to generate a fusion protein comprising part of the hCDK4 sequence linked to codons 154-302 of the yeast PHO85 gene. The fusion protein is used to screen for compounds that affect mammalian cell cycle regulatory proteins. The method comprises administering a compound to a cell line, which contains a reporter gene linked to an Upstream Activation Sequence (UAS) and a promoter, where the UAS binds a transcription control factor (TCF) which is regulated through cyclin-dependent kinase (CDK) phosphorylation. Also included in the construct is an effector gene providing a gene product to permit normal cyclin/CDK regulation of the TCF. Expression of the reporter gene is then analysed in the cell line, thereby determining whether the compound affects the normal regulation. The method can be used to identify inhibitors and activators of mammalian cell cycle regulatory proteins, especially inhibitors and activators of cyclins, CDKs, cyclin/CDK complexes, cyclin kinase inhibitors (CKIs), and cyclin/CDK/CKI complexes. The identified agents can be used for stimulating growth of cells (as in wound healing), or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
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Best I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Screening for agents that effect cell cycle regulatory proteins using a cell line that expresses a reporter gene in response to regulation through phosphorylation by a cyclin/CDK system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCR primer; amplification; yeast; UAS; upstream activating sequence; transcription terminator; cell cycle; Upstream Activation Sequence; UAS; promoter; phosphorylation; cyclin; cyclin-dependent kinase; CDK; vector; cyclin kinase inhibitor; CKI; growth; wound healing; cancer therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            premature differentiation of precursor stem cells into insulin-secreting beta cells and for identifying compounds that prevent or activate beta cell differentiation. The present sequence is human RT-PCR primer for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Primer #2 for human CDK4 codons 1-163.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    regulation through phosphorylation
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96US-0029127.
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100.0%; Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            English
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. 1.4e+02;
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RESULT 102
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Best Local
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                                                                                                                                                                                           modulate expression of G-alpha-16. G-alpha-16 is a human G protein which interacts differentially with several receptor types including members of the opioid and chemokine receptor families. A series of antisense oligonucleotides have been designed to target different regions of the human G-alpha-16 RNA. They may be used to inhibit the expression of G-alpha-16 in human cells and tissues and thus to treat diseases associated with G-alpha-16, sues and thus to treat diseases, especially cancer. Infections, inflammation or tumour formation can be prevented or delayed. The compounds can be used in research and disgnostics in sandwish and other assays.
                                                                                                                                                                                                                                                                                                                                            The
                                                                                                                                       Note: The sequence has a phosphorothioate backbone and may be either an oligodeoxymucleotide or a chimeric oligonucleotide containing 2'-methoxyethyl (2'-MOE) wings and a deoxy gap. The number given above corresponds to the oligodeoxynucleotide sec
                                                                                                                                                                                                                                                                                                                                                                                                  A new antisense compound for inhibiting the expression of human G-alpha-16 and treating, preventing or delaying infections, inflammation or hyperproliferative disorders such as cancer -
                                                                                                              Sequence 18
                                                                                                                                                                                                                                                                                                                                                                         Example 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2000-412354/35
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; G-alpha-16; G protein; cytostatic; hyperproliferative disorder; cancer; inflammation; infection; antisense inhibition; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human G-alpha-16 antisense oligonucleotide ISIS# 20849
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ISIS-) ISIS
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                                                                                                                                                                                                                                                                                                                                            present sequence is an antisense oligonucleotide used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2203 GACTTTGGACTCGCCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18
                                                     16;
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16; Conserv
                                                                      Similarity
                         CCAGCGCCTGGAAGAGAA 1371
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                                                                                                              B₽;
                                                                                                                                                                                                                                                                                                                                                                       Page 73; 100pp; English.
                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PHARM INC
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Pred. No. 1.
                                                                    Pred. No. 1.3e+02
                                                       Mismatches
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                                                       <u>د.</u>
                                                                               Length 18;
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                                                       Indels
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RESULT 103
AAH75270/c
                                                                                             expression of inducible nitric oxide synthase. The antisense compounds CC have immunomodulator, antidiabetic, cardiovascular, cardiant, cardiant, cardiovascular control of inducible consumprotective, disorder and vasotropic activity. The antisense conjugnucleotides are useful for inhibiting the expression of inducible nitric oxide synthase in cells or tissues. In particular, the antisense coligonucleotides are useful for treating diseases or disorders associated with inducible nitric oxide synthase, e.g. diabetes, immunological consumprotes of the cardiovascular disorder, neurological disorder or ischaemia/reperfusion injury. The antisense oligonucleotides are also cuseful for research and disgnostics. The present sequence is that of an antisense 2'-0-methoxyethyl gapmer oligonucleotide with a phosphorothioate backbone, a central "gap" region of ten nucleotides continucleotide by four nucleotides throughout the oligonucleotide. The antisense coligonucleotide is targeted to human inducible nitric oxide synthase (NOS)
Best Local Similarity
                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         modulate expression; immunomodulator; antidiabetic; cardiovascular; cardiant; neuroprotective; vasotropic; ischaemia; reperfusion injury; 2'-O-methoxyethyl; phosphorothioate; human; ss.
                                                                                                                                                                                                                                                                                                                                        The invention relates to antisense compounds, especially oligonucleotides, which are targeted to a nucleic acid encoding inducible nitric oxide synthase and which specifically hybridise to and modulate expression of inducible nitric oxide synthase. The antisense compounds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New antisense oligonucleotides for modulating the expression of inducible nitric oxide synthase in cells or tissues, particularly useful for treating e.g. immunological, cardiovascular or neurological
                                                                                                                                                                                                                                                                                                                                                                                                                                                              useful for treating e.g. disorders, or ischaemia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bennett CF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human inducible NOS antisense oligonucleotide SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 02-OCT-2001
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                                                 Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                             Page 85; 144pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Dean NM,
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1.1%;
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                                                 C;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cowsert LM;
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                                                   <u>ن</u>
Score 14.8; DB 1;
Pred. No. 1.3e+02;
                                                 7 T; 0
                                                   other;
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RESULT 104
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AC Homo E
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AC AAH266
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                                                                                           The specification describes antisense oligonucleotides which are targeted to a nucleic acid encoding Her-4 (a receptor/tyrosine kinase) The antisense oligonucleotides are used to inhibit the expression of Her-4 in cells or tissues in vitro. They can be used in diagnostics, therapeutics, prophylaxis and as a probe in research reagents. The antisense oligonucleotides can be used to prevent or delay infection, inflammation or tumour formation. AAH25315-AAH25398 represent antisens
                                                                                                                                                                                                                                                                                                                                            Compound for inhibiting the expression of Her-4 (a receptor/tyrosine kinase) e.g. in preventing tumour formation, comprises an antisense oligonucleotide that hybridizes to a nucleic acid encoding Her-4 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAH25370
  Sequence
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                                                                              oligonucleotides
                                                                                                                                                                                                                                                                                                 Example 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-388929/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bennett CF,
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                                                                                                                                                                                                                                                                                              Column 45-46; 44pp; English.
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Query Match

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RESULT 106
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ID AAA859
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AC AAA859
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                                                                                                                                                                                                                                                              Representative examples of ribozyme recognition sites are given in AAAB82415 to AAAB6787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells.
                                                                                                                                                                                                                                                                                               The present invention relates to a hairpin or hammerhead ribozyme, designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase other than cell-cycle dependent kinases CDKI, PCNA and Cyclin Bl.
                                04-DEC-2000
                                                                                                                                                                                                                      Sequence 19
                                                     AAA85912;
                                                                                                                                                                                                                                                                                                                                           Disclosure;
                                                                                                                                                                                                                                                                                                                                                                 New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1, PCNA and Cyclin B1
                                                                                                                                                                                                                                                                                                                                                                                                                                   Tritz R,
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          hs ribozyme binding site #20.
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0; Mismatches 2;
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Pred. No. 1.
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les 2;
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03-MAY-2001

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Best Local Similarity
                                                                    Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme; recognition site; target; ribozyme binding site; eye disease; vulnerary proliferative disease; skin disease; psoriasis; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP; matrix metalloproteinase; growth factor; reductase; scarring; cytostat: antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide; antisickling; ophthalmological; keratolytic; gene therapy; viral wart; atopic dermatitis; actinic keratosis; squamous cell carcinoma; basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention relates to a hairpin or hammerhead ribozyme, designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase other than cell-cycle dependent kinases CDKI, PCNA and Cyclin Bl. Representative examples of ribozyme recognition sites are given in AAA82415 to AAA86787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells. The ribozyme is resistant to endonuclease activity and hence is
  Homo
                                                       sickle
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New hairpin and hammerhead ribozyme RNA encoding a cyclin or cell-cycle PCNA and Cyclin B1 -
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                                                                                                                                                                                                                                                                                                                                                                                   10-SEP-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard; DNA; 19
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                                                    retinopathy; ss.
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Pred. No. 1.
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Best Local :
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                                                                                                                                                                                                                                                                                                        Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme; recognition site; target; ribozyme binding site; eye disease; vulnerary; proliferative disease; skin disease; psoriasis; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP; matrix metalloproteinase; growth factor; reductase; scarring; cytostatic; antipporiatic; dermatological; antiseborrheic; antidiabetic; virucide; antipporiatic; dermatological; antiseborrheic; antidiabetic; virucide;
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                                                                                                                                                                                                                                           antisickling; ophthalmological; keratolytic; gene therapy; viral wart; atopic dermatitis; actinic keratosis; squamous cell carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cdc25 hs ribozyme binding site SEQ ID NO:3498.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle dependent kinase, growth factor or a reductase, or administering a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention describes a method for treating a proliferative skin or eye disease and scarring. The method involves administering a ribozyme (I) which cleaves RNA encoding a cytokine involved in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAH61074;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 1; Page 326; 408pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-300427/31.
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       WO200130362-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAH61074 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                26-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1320 GATATCCTTTCACTCTGC 1337
                                                                                                           sapiens
                                                                                                                                                                                                                  cel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N
                                                                                                                                                                              cell retinopathy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IMMUSOL INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                              carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 3 A; 5 C; 2 G; 9 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tritz R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9908-0161532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.8; DB 1;
Pred. No. 1.4e+02;
0; Mismatches 2;
                                                                                                                                                                                                           wart; vitreoretinopathy; scar;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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RESULT 109
AAQ49761
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Treating proliferative skin or eye diseases and scarring, using ribozymes that cleave RNA encoding cytokines involved in inflammat matrix metalloproteinases, growth factors and cell-cycle dependent
                                                                                                                                                                                                                                                                                                                                                                              25-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAQ49761 standard; DNA; 17 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 19 BP; 2 A; 5 C; 2 G; 10 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             scar. AAH57577 to AAH62099 represent sequences exemplification of the present invention.
                                                                                                                           Synthetic
                                                                                                                                                                                                                         MIS; Mullerian Inhibitory Substance; transforming growth factor; inhibin;
                                                                                                                                                                                                                                                                                                       Membrane serine/threonine kinase receptor DNA primer.
                                                                                                                                                                                                                                                                                                                                                         20-APR-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; Page 326; 408pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-300427/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Robbins JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-OCT-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (IMMU-) IMMUSOL INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity nes 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1320 GATATCCTTTCACTCTGC 1337
                                                                                                                                                                       polymerase chain reaction; primer; amplification; ss.
                                                                                                                                                                                                 sforming growth factor; inhibin; BMP;
morphogenesis protein; serine/threonine kinase receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ç
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              eye disease and scarring.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GATTTCCTTTCATTCTGC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tritz R
                                                                                                                                                                                                                                                                                                                                                    (updated)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99US-0161532.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     88.98;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              describes a method for treating a proliferative nd scarring. The method involves administering a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 14.8; DB 1;
Pred. No. 1.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                      receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             inflammation,
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30-SEP-1993

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RESULT 110
AAT36072
ID AAT360
XX AAT360
AX AAT360
AAT36
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                                                                                                                                                                                                                                                       04-NOV-1993;
18-MAR-1992;
11-MAR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The primers given in AAQ49761 and AAQ49762 were used in the isolation of four novel membrane serine/threonline kinase receptor CDNAs. Misr1 (AAQ49763) is believed to encode an isoform of the rat MIS receptor. Misr2A/misr2B (AAQ49764), misr3 (AAQ49765) and misr4
                                                                                                                                                                                   (GEHO )
                                                                                                                                                                                                                                                                                                                                                             04-NOV-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     transforming growth factor beta type I recept wound healing; tumour treatment; rat inhibin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mullerian inhibiting substance receptor; MISR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 17 BP; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New receptors of the transforming growth factor-beta receptor family - comprising Mullerian Inhibitory Substance Receptors and
New isolated TGF-beta type I receptor DNA - used to develop prods for diagnosis and therapy, e.g. for treating tumours or promoting
                                                                                WPI; 1996-353830/35
                                                                                                                                                                                                                                                                                                                                                                                                              23-JUL-1996.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                polymerase chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Transforming
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-MAR-2003
30-OCT-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAT36072 standard; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (AAQ49766) are believed to encode monomeric isoforms of the ratinhibin receptor and/or BMP receptor. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 23; 59pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      inhibin receptors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1993-320743/40.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (GEHO ) GEN HOSPITAL CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18-MAR-1992;
11-MAR-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -
                                                                                                                                                                                   GEN HOSPITAL CORP
UNIV DUKE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1.0%;
Similarity 82.4%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                  Gustafson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      growth factor beta receptor superfamily PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (updated)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gustafson
                                                                                                                                                                                                                                                       93US-0149105.
92US-0853396.
93US-0029673.
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93US-0029673.
                                                                                                                                                                                                                                                                                                                                                             93US-0149105
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              reaction; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; 2 C; 4 G; 5 T; 3 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          entry)
                                                                                                                                  Z,
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                                                                                                                                  He
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.6; DB 1;
Pred. No. 1.3e+02;
2; Mismatches 1;
                                                                                                                                  Ξ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ¥,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             receptor; gene
                                                                                                                                  ×
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGF-beta receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               therapy;
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RESULT 111
AAH40382/c
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Best Local S
Matches 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Degenerate PCR primers were designed based on two highly conserved regions within the cDNA encoding a murine activin receptor, human and porcine TGF-beta type II receptor and the daf-1 receptor of C.elegans. The primers (see AAT36072 and AAT36073) were used for amplifying clones present in a 14.5 day foetal rat urogenital ridge cDNA COS cell expression library. Four clones encoding portions of four novel polypeptides (all putative serine/threonine kinases) were obtained and designated pGEM7-Misr1, 2, 3 and 4. The inserts from these clones were used as probes to isolate full-length cDNA sequences for each of the four TGF-beta type I receptors, Misr1 is believed to encode an isoform of the rat Mullerian Inhibiting substance (MIS) receptor, while misr2A/misr2B, misr3 and misr4 are
                                                                                                                                                                                                                                                                                                                                                                                                                                                Lesch-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia; polycystic kidney disease; osteogenesis imperfecta; autoimmune disease; polycystic kidney disease; osteogenesis imperfecta; multiple sclerosis; acute intermittent porphyria; rheumatoid arthritis; multiple sclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Single nucleotide polymorphism; SNP; single nucleotide primer extension; SNPE; genotyping; agammaglobulinaemia; diabetes insipidus; cancer;
                                                               Claim 1;
                                                                                                                New genotyping oligonucleotide, useful for detecting the presence, absence or identity of single polynucleotide polymorphism in a nuc
                                                                                                                                                                                               Picoult-Newburg L,
                                                                                                                                                                                                                                                                                                                                    26-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SNP specific lower PCR primer SEQ ID 3178.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-AUG-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAH40382 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 17 BP; 3 A; 2 C; 4 G; 5 T; 3 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           believed to encode monomeric isoforms of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Column 14; 44pp; English
                                                                                                                                                                                                                                                                   15-OCT-1999;
                                                                                                                                                                                                                                                                                                  13-OCT-2000; 2000WO-US28436
                                                                                                                                                                                                                                                                                                                                                                    WO200129262-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                     inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and/or BMP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            wound healing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (Updated on 25-MAR-2003 to correct PF field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1813 GTGGCCGTGAAGATGTT 1829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 GTGGCCGTSAARATYTT 17
                                                                                                                                                                                                                                  ORCHID BIOSCIENCES INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                               Page 66; 83pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                     forensic
                                                                                                                                                                                                                                                                   99US-0160096.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                    investigation; paternity analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ۲.
د
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 14.6; DB 1;
Pred. No. 1.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rat inhibin receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                a nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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Sequences AAH37205 - AAH40944 represent PCR primers, single nucleotide primer extension (SNPE) primers, and the sequences of regions flanking sites of single nucleotide polymorphisms SNPs. The present invention

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ARTSSILT 112
AATTS623/C
ID AATTS62
XX AATTS62
AC AATTS62
XX 25-MAR
DT 25-MAR
DT 16-APR
XX PRODUCT
KW disord
KW PSOUCH
KW disord
KW WILSE
EN WO9624
XX SYNTHE
PN WO9624
XX 15-AUG
PP 05-PEB
PR 09-PEB
PR 18-SEP
PR WPI: 1
XX SEPTIOLISO:
PT GOLIGO:
PT SEPTISCE
P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CC SNP flanking sequence, the SNPE primer is used as a genotyping primer.

CC The oligonuclectides are useful for genotyping a nucleic acid sample by performing a single-nuclectide primer extension reaction. The coligonuclectides are useful for determining the presence, absence or contentity of a SNP and for genotyping nucleic acid samples, for e.g. to compare she presence by association analysis the genotype of an individual or group of contribution analysis the genotypic trait suspected of being coused by one or more SNPs. Phenotypic traits include diseases e.g. cagammaglobulinaemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular consequences include symptoms of or susceptibility to multifactorial contraits also include symptoms of or susceptibility to multifactorial consease of which a component is or may be genetic such as autoimmune conformation, cancer, nervous system diseases and infection by pathogenic microorganism. The method is also useful in forensic investigations and contentity analysis. The present sequence represents a PCR primer specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 14
                            Oligo:nucleotide which reduces CD28 gene expression for treating immune system diseases, e.g. graft vs. septic shock, psoriasis, etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Reduction; T cell; CD28; gene expression; treatment; immune system; disorder; graft versus host disease; septic shock; viral disease; psoriasis; type I diabetes mellitus; thyroiditis; sarcoides;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            multiple sclerosis; uveitis; rheumatoid arthritis; systemic lupus erythematosus; inflammatory bowel disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  includes kits for determining the presence or absence of a SNP, using the oligonucleotides of the invention. The PCR primers are used to amplify a
                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-FEB-1995;
18-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-FEB-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAT36213 standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 18
                                                                                                                                                                             WPI; 1996-384228/38.
                                                                                                                                                                                                                                                  Tam RC
                                                                                                                                                                                                                                                                                                                       (ICNC ) ICN
                                                                                                                                                                                                                                                                                                                                                                                            18-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                             09-FEB-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-AUG-1996.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9624380-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antisense;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16-APR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAT36213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a human SNP containing DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1382 CAGCTTCCCCAGACT 1396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGCTTCCCCAGMCT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           oligo targetting CD28 stop codon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 3 A;
                                                                                                                                                                                                                                                                                                                       PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (updated)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                     95US-0387041.
95US-0529878.
95US-0387041.
95US-0529878.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   96WO-US01507.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3 C; 9 G; 2 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             βP
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Pred. No. 1.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              777-792).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                        disease,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
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RESULT 113
AAX9037/C
ID AAX903
XX AAX903
XX AAX903
AC AAX903
XX CD28,
CO Oligon
XX CD28,
KW Immune
XX Synthe
XX Synthe
XX INS5932
XX INS5932
XX INSFER
XX IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  useful in the treatment of CD28 mediated diseases, particularly immune system disorders, e.g. graft versus host disease, septic shock, viral disease, psoriasis, type I disabetes mellitus, thyroiditis, sarcoides, multiple sclerosis, uveitis, rheumatoid arthritis, systemic lupus erythematosus, inflammatory bowel disease, etc. Reducing CD28 expression may reduce the effects cantigenic stimulation of CD28 positive T cells, with a consequer reduction in cytokine, release.
                                                                                                                                                                               The present invention describes a method for inhibiting the expression of CD28, IL-2, gamma-interferon or IL-8 in a mammal. The method comprises subcutaneous administration of an oligonucleotide (OGN).

AAX90288 to AAX90291 represent specifically claimed OGNs for use in the method. The OGNs are used for the treatment of immune system-mediated diseases. AAX90292 to AAX90323 represent oligonucleotides used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAX90307 standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present oligonucleotide reduces T cell CD28 gene expression, useful in the treatment of CD28 mediated dispasse particularion
                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                           Treatment of immune system-mediated diseases by inhibiting expression of CD28, IL-2, gamma-interferon or IL-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Oligonucleotide RT14 used in an Example from US5932556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 16
                                                                                                                                                            exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                             Example; Column 15; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-443609/37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                03-AUG-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       immune system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CD28; inhibition; antisense oligonucleotide; interleukin 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-SEP-1999
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15; Conserv
     l Similarity
                                                                                                             16
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В
С.
                                                                                                             BP;
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     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mediated disease;
                                                                                                           1 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        95US-0529878
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                                                                                                             5 C;
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C;
                           1.0%;
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G;
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     <u>,</u>
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Score 14.4; DB 1;
Pred. No. 1.3e+02;
0; Mismatches 1
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Pred. No. 1
                                                                                                             4 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gamma-interferon; IL-8; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                             0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
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                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
                                                      Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 16;
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        Indels
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1500 CAGCAGCCAGCCGGCT 1515

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RESULT 114
AAA29601/c
ID AAA296
XX AAA296
XX AAA296
XX Human
XX Hormon
KW Hormon
KW PCR pr
XX WO2000
XX WO
     RESULT 115
AAH61977
ID AAH619
XX
AC AAH619
XX
XI O-SEP
XX
XX
XX
XX
IL-1 b
XX
KW Human;
KW recogn
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Best Local S
Matches 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cervical and ovarian cancers and to make hormonal drugs for retarding the conversion of a hormone-dependent cancer into a hormone-independent cancer. The drug can retard the change of hormone-dependent cancers
Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme; recognition site; target; ribozyme binding site; eye disease; v
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hormonal drug-containing agents for retarding conversion of hormone-dependent cancers into hormone-independent cancers, useful e.g. for treating prostate and breast cancers -
                                                                                     IL-1 beta hairpin/hammerhead ribozyme recognition
                                                                                                                                                                                                         AAH61977
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       into hormone-independent cancers effectively. The present sequence represents a PCR primer which is used in an example from the presen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes a hormonal drug-containing agent (I) for retarding the conversion of a hormone-dependent cancer into a hormone-independent cancer. The agents can be used to treat prostate, breast,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 08-OCT-1998;
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                                                                                                                                                 10-SEP-2001
                                                                                                                                                                                                                                                                 AAH61977 standard; DNA; 16 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-OCT-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2323 AGTGATGTCTGGTCCT 2338
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                                                                                                                                                 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.4; DB 1;
Pred. No. 1.3e+02;
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                                                                                        Bite
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dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling, ophthalmological, vulnerary, keratolytic and virucide activities, and cleaves RNA encoding cytokine involved in inflammation. (I) can be used in gene therapy. (I) and (II) are useful for treating proliferative skin diseases such as psoriasis, atopic dermatitis, actinic keratosis, squamous or basal cell carcinoma and viral or seborrheic wart. They can also be used for treating proliferative eye diseases such as diabetic retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of prematurity and retinal detachment, and for treating and preventing scarring such as keloid, adhesion and hypertrophic or hypertrophic burn scar. AAH57577 to AAH62099 represent sequences used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ribozyme (I) which cleaves RNA encoding a cytokine involved in inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle dependent kinase, growth factor or a reductase, or administering nucleic acid molecule (II) comprising a promoter operably linked nucleic acid segment encoding (I). (I) can have antipsoriatic, anticle acid segment encoding (I). (I) can have antipsoriatic,
Sequence 16 BP; 2 A; 3 C; 5 G; 6 T; 0 other;
                                                                                                                                                     exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Treating proliferative skin or eye diseases and scarring, ribozymes that cleave RNA encoding cytokines involved in matrix metalloproteinases, growth factors and cell-cycle of the control of the control
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atopic dermatitis; actinic keratosis; squamous cell carcinoma;
basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                proliferative disease; skin disease; psoriasis; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP; matrix metalloproteinase; growth factor; reductase; scarring; cytostatic; antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   skin or eye disease and scarring.
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                                                                                                                                                     the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           describes a method for treating a proliferative nd scarring. The method involves administering a
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                  AAX72965 standard;
                                         2324 GTGATGTCTGGTCCTT 2339
                                                15; Conser
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     (first entry)
                                                  1.0%;
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Pred. No. 1.3e+02;
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Mouse flk-1

VEGF receptor hammerhead ribozyme substrate #398.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Vascular endothelial growth factor receptor; WBGF receptor; flt-1; flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; tumour anglogenesis; psoriasis; rheumatoid arthritis; ocular disease; fms-like tyrosine kinase 1; kinase insert domain containing receptor;
              myopic degeneration; psoriasis; verruca vulgaris; angiofibroma; tuberous sclerosis; pot-wine stain; Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome: ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nucleic acid molecule modulating VEGF receptor(s) gene expression mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
                                                               ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD; dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis; age related macular degeneration; inflammation; neovascular glaucoma;
                                                                                                   Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis; integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme; hammerhead ribozyme; anglogenic factor; cytostatic; antidiabetic; ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-JAN-1996;
26-OCT-1995;
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                                                                                                                                                                                                                             19-JUN-2000
                                                                                                                                                                                                                                                                                                AAA18888 standard; RNA; 17
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                                                                                                                                                                                         Human TIE-2 substrate sequence SEQ ID NO:2114.
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                                                                                                                                                                                                                                                                                                                                                                                                                   1822 AAGATGTTGAAAGATG 1837
                                                                                                                                                                                                                                                                                                                                                                                                                                                       12;
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95US-0005974.
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75.0%;
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Pred. No. 1.4e+(
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RESULT 118
ABNO83 XX
AC ABNO83
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AC ABNO83
XX
DT 29-MAY
XX
DE Human
XX
KW Human;
KW Human;
KW muscle
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OS Homo s
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Crime present invention describes enzymatic nucleic acid molecules with CR RNA cleaving activity, which specifically cleave RNA encoded by an aryl CR hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3 CR gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT, CR and AAA17168 to AAA17560 and AAA17685 to AAA17684 represent their CR corresponding target sequences, AAA17685 to AAA18385 and AAA19087 to CR AAA19154 represent ribozyme sequences for Tie-2, and AAA19385 to AAA19086 co AAA19155 to AAA19222 represent their corresponding target sequences; CR AAA19232 to AAA21961 and AAA21961 to AAA21561 to AAA21962 represent ribozyme and CR AAA19223 to AAA21963 and AAA21961 to AAA21962 represent ribozyme sequences; CR AAA19223 to AAA21963 and AAA21961 to AAA21962 represent ribozyme sequences; CR AAA19223 to AAA22163 and AAA21961 to AAA21962 represent ribozyme sequence for integrin subunit beta 3, and AAA21961 to AAA23362 represent ribozymes of CR AAA21969 to AAA22467 and AAA22363 to AAA23342 represent ribozymes of CR AAA23422 represent their corresponding target sequences. The ribozymes of CR AAA23422 represent their corresponding target sequence of CR AAA23422 represent their corresponding target sequence of CR AAA23422 represent their corresponding target sequences. The ribozymes of CR AAA23422 represent their corresponding target sequence of CR AAA23422 represent their corresponding target sequence of CR AAA23422 represent their corresponding target sequence of CR AAA234263 to AAA23426 to AAA2343 to CR AAA2342 represent ribozymes of CR AAA2342 represent their corresponding target sequence of CR AAA2342 represent their corresponding target sequence of CR AAA2342 represent ribozyme of CR AA
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Best Local
                                       Human; genome-derived myosin-like protein 1; GDMLP-1; muscle; myosin; chromosome 22; gene therapy; vaccine; skeletal muscle disorder; amplicon; screening; ss.
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                                                                                                                           Human GDMLP-1 17-mer scanning
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-MAR-1998;
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 4 A;
                                                                                                                                                                     (first entry)
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Pred. No. 1.4e+02;
6; Mismatches 1,
                                                                                                                              SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 U; 0 other;
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                                                                                                                              NO:5
                                                                                                                              sequence SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 17;
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                                                                   hGDMLP-1; heart;
heart disease;
                                                                                                                              ID NO:8374.
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Homo sapiens

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RESULT 119
ABN08383/c
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                                                                                                                       Matches
                                                                                                                                                    Query Match
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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
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21-SEP-2000;
27-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human
                                                                                                                                                                                                                               N.B. The sequence data for this patent did not specification, but was obtained in electronic i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The
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                                                                                                                                                                                     Sequence 17
                                                                                                                                                                                                                                                               invention.
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                                                                                                                                         Local
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                                                                                          1506 CCAGCCGGCTGTGCAC 1521
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                                                                                                                                         Similarity
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2001WO-US00670.
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2001WO-US00667.
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                                                                                                                                                                                     4 A;
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                                                                                                                                      1.0%;
                                                                                                                                                                                   5 C; 6 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hanzel
                                                                                                                         <u>,,</u>
                                                                                                                                              Score 14.4; DB 1;
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                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             English
                                                                                                                                      No. 1.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rank
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                                                                                                                                                   Length 17;
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26-MAY-2000;
21-SEP-2000;
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                                                                                                                                                                        30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
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                                                         (AEOM-)
                                                                                                  30-JAN-2001;
30-JAN-2001;
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2002-179446/23.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     genome-derived myosin-like protein 1; GDMLP-1;
                         J1 Y,
                                                        AEOMICA INC.
                                                                                   2001WO-US00669.
2001WO-US00670.
2001US-266860P.
                                                                                                                                                                                      2001WO-US00661.
2001WO-US00662.
2001WO-US00663.
2001WO-US00664.
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2001WO-US00668.
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                         Penn SG,
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                         Hanzel DK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ
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                           Rank
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                            Chen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         hGDMLP-1; heart;
heart disease;
                            Shannon ME
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New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1

Disclosure; SEQ ID 8375; 214pp; English.

CC The present invention describes a human genome-derived myosin-like CC protein 1 (hGDMLP-1). The protein and polynucleotide sequences of CC hGDMLP-1 can be used in gene therapy and vaccine production. The CC hGDMLP-1 nucleic acids can be used as probes to detect, characterise CC and quantify hGDMLP-1 nucleic acids in samples, as amplification CC substrates, to provide initial substrates for the recombinant engineering CC of hGDMLP-1 protein variants having desired phenotypic improvements, and CC for expressing the proteins. The hGDMLP-1 proteins or polypeptides may CC be used as immunogens to raise antibodies that specifically recognise CC concentration and/or amount specifically of hGDMLP proteins, as standards in assays used to determine the CC concentration and/or amount specifically of hGDMLP proteins, as specific conjustion, as therapeutic supplement in patients having specific CC diagnosing a tisorder associated with the expression of hGDMLP-1, in CC diagnosing a disorder associated with the expression of hGDMLP-1, in CC diagnosing a disorder associated with the expression of hGDMLP-1, in the sequence represents an oligomer used in the ccenening of the hGDMLP-1 sequence in the exemplification of the present convention.

invention.

N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequence.

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RESULT 120
ABN09009
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The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       26-MAY-2000;
21-SEP-2000;
27-SEP-2000;
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                                                                                                                                                       Disclosure;
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30-JAN-2001;
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30-JAN-2001;
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                                                                                                                                                                                                                                                                    Ji Y,
                                                                                                                                                                                                                                                                                             AEOMICA INC.
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2001WO-US00668.
2001WO-US00669.
2001WO-US00670.
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2001WO-US00665.
2001WO-US00666.
                                                                                                                                                     SEQ ID 9001; 214pp;
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2001WO-US00663.
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2001WO-US00661.
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disorder; amplicon; screening; ss.
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                                                                                                                                                      English.
                                                                                                                                                                                                                                                                     Rank DR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     therapy; vaccine; heart disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sequence SEQ
                                                                                                                                                                                                                                                                     Chen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 hGDMLP-1; heart;
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                                                                                                                                                                                                                                                                     Shannon ME;
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Best Local S
Matches 15
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27-SEP-2000;
04-OCT-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present
                                                                                                                                                                                               30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
                     New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N.B. The sequence data for this patent did not specification, but was obtained in electronic
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                                                                                                                                                                                                                                                                                                                                                                                                                                               muscle; myosin; chromosome 22; gene
skeletal muscle disorder; amplicon;
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                                                                                                                                                                                                                                                                                                                                                                         06-DEC-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart;
muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human GDMLP-1
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                                                                                                                                                                       30-JAN-2001;
30-JAN-2001;
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30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens.
                                                                                                                       (AEOM-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  invention.
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                                                                       2002-179446/23.
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                                                                                                                        AEOMICA INC.
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           protein
                                                                                                                                              2001WO-US00668.
2001WO-US00669.
2001WO-US00670.
2001US-266860P.
                                                                                                                                                                                               2001WO-US00664.
2001WO-US00665.
2001WO-US00666.
2001WO-US00667.
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2001WO-US00662.
2001WO-US00663.
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                                                                                                Penn SG,
              hGDMLP-1
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                                                                                               Hanzel
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Pred. No. 1.
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                                                                                                Rank
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                                                                                                Chen
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                                                                                                Shannon
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RESULT 122
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XX WPI;
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YX HER2,
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CC substrates, to provide initial substrates for the recombinant engineering
CC of holdwip-1 protein variants having desired phenotypic improvements, and
CC for expressing the proteins. The holdwip-1 proteins or polypeptides may
CC holdwip-1 proteins, as standards in assays used to determine the
CC concentration and/or amount specifically of holdwip proteins, as specific
CC deficiency in holdwip-1 production, and in vaccines or for replacement
CC deficiency in holdwip-1 production, and in vaccines or for replacement
CC diagnosing a disorder associated with the expression of holdwip-1, in
CC daticular heart and skeletal muscle disorders. holdwip-1, in
CC chromosome 22. The present sequence represents an oligomer used in the
CC screening of the holdwip-1 sequence in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 15
                Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences -
                                                                                                                                                                                            29-MAY-2001; 2001US-294140P.
06-JUN-2001; 2001US-296249P.
10-SEP-2001; 2001US-318471P.
                                                                                                                                                                                                                                                                                                                                                                                                                            Human; ribozyme; short interfering RNA; enzymatic nucleic acid; H-Ras; N-Ras; H
                                                                                                                                                                                                                                                                                                         05-DEC-2002.
                                                                                                                                                                                                                                                                                                                                                                                                             anti-rheumatic; cancer; AIDS; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human H-Ras DNAzyme target #748.
                                                                                                                                                              (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                    29-MAY-2002; 2002WO-US16840
                                                                                                                                                                                                                                                                                                                                          WO200297114-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABZ61957;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   specification,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene thorapy and vaccine production. The hGDMLP-1 nuclei caids can be used as probes to detect, characterise
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ftp.wipo.int/pub/published_pct_sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The sequence data for this patent did not form part of the printed cilication, but was obtained in electronic format directly from WIPO
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Pred. No. 1.4e+(
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                                                                                                                                                                                                                                                                                                                                                                                                                             HIV;
                                                                                                                                                                                                                                                                                                                                                                                                                             siRNA; HER2; K-
IV; cytostatic;
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c; anti-HIV;
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Matches 15
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Ohasi C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a novel short interfering RNA (siRNA) nucleic acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HERZ, K-Ras, H-Ras, N-Ra human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HERZ, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524, ABZ66524, ABZ66525 - ABZ66525 - ABZ66524, ABZ66525 - ABZ66525 - ABZ66525 - ABZ66524, ABZ66525 - ABZ66525 - ABZ66525 - ABZ66524 - ABZ66524 - ABZ66525 - ABZ66
                                                                                                                                                                                                                   Identifying compounds which modulate expression of nucleic acids, unto provide compounds having defined physical, chemical or bioactive properties, e.g. antisense activity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13-APR-1998;
28-APR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Identification; genetic target; gene modulation; human; probe; antisense oligonucleotide; phosphorothioate; PCR primer; nucleotide sequence-based technology; antisense drug discovery;
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                                                                                                                                                                                                                                                                                                                                                                                                                             (ISIS-) ISIS
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C, Wyatt JR,
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98US-0067638.
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, Borchers AH,
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Pred. No. 1.4e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                            Freier SM,
Vickers TA;
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1.4e+02;
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A method has been developed of defining a set of compounds that modulat the expression of a target nucleic acid (tNA) sequence via binding of the compounds with the tNA sequence. The method comprises generating a library of virtual compounds in silico according to defined criteria, and evaluating in silico the binding of the virtual compounds with the tNA according to defined criteria. Also described are: (1) a method of defining a set of oligonucleotides (ONs) that modulate the expression of the virtual compounds.

modulate

Example 27; Page 108; 264pp; English.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a tNA sequence via binding of the ONs with the tNA sequence comprising generating a library of virtual compounds in silico according to defined criteria, and evaluating in silico the binding of the virtual ONs with the tNA according to defined criteria; and (2) a method of defining a set of compounds that modulate the expression of a tNA sequence via binding of the compounds with the tNA. The methods can be used for the generation and identification of synthetic compounds having defined physical, chemical or bioactive properties. Information gathered from assays of such compounds is used to identify nucleic acid sequences that are tractable to a variety of nucleotide sequence-based technologies, e.g. antisense drug discovery and target validation. AAZ40852 to AAZ41220, and AAY52701 to AAY52706, represent sequences used in the
                                                                                                                nucleotides, targeted to a nucleic acid molecule encoding human G-alpha-11. AAZ19468 to AAZ19547 represent human G-alpha-11 phosphorothioate antisense oligonucleotides given in the present invention. The oligonucleotides may be useful for the treatment of
                                                                                                                                                                                                                                                Inhibitory antisense compounds useful for associated with G-alpha-11
                                                                                                                                                                                                                                                                                                                                                                                                04-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                 04-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human G-alpha-11 phosphorothioate antisense oligonucleotide SEQ ID NO:30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-NOV-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAZ19490 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             exemplification of the present invention.
                                                                  Sequence 18
                                                                                                  diseases associated
                                                                                                                                                                                 The present invention describes inhibitory antisense compounds of 8-30
                                                                                                                                                                                                                   Example 15;
                                                                                                                                                                                                                                                                                                   WPI; 1999-539140/45
                                                                                                                                                                                                                                                                                                                                   Cowsert
                                                                                                                                                                                                                                                                                                                                                                  (ISIS-) ISIS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                phosphorothicate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; G-alpha-11; antisense oligonucleotide; inhibition; expression;
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   l Similarity
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                                                                                                                                                                                                                 Column 40; 38pp; English.
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                                                                  BP; 3
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                                                                                                  with G-alpha-11
                 1.0%;
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                                                                  G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.4; DB 1;
Pred. No. 1.5e+02;
0; Mismatches 1;
                  Score 14.4; DB 1;
Pred. No. 1.5e+02;
Mismatches
                                                                                                                                                                                                                                                                  the treatment
                                Length 18;
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                      The present invention relates to a new method of producing mutant CC 2,5-diketo-D-gluconic acid reductase enzymes with altered cofactor CC dependency. The method of the invention involves identifying a cofactor CC specificity site in a wild type 2,5-diketo-D-gluconic acid reductase CC enzyme and mutating an amino acid in the identified cofactor specificity Site so that cofactor dependency of reactions catalysed by the enzyme is CC altered. The method is useful for producing mutant 2,5-diketo-D-gluconic CC acid reductase enzymes with altered cofactor dependency and as such is CC useful in metabolically engineered organisms to produce 2-keto-L-gluconic CC acid from glucose in a single fermentation step. The mutant 2,5-diketo-D-CC gluconic acid reductase enzyme produces 2-keto-L-gluconic acid from CC organisms. Flexibility in catalysing the enzymetic reaction by the enzyme CC organisms. Flexibility in catalysing the enzymatic reaction by the enzyme CC dinucleotide) or NADPH provides advantages. Since the cost of NADPH is an order of magnitude greater than that of NADH, use of the enzyme of the C invention in any in vitro system where cofactor must be purchased and CC provided for the enzymes provides a significant cost saving advantage. The mutant 2,5-diketo-D-gluconic acid reductase enzyme exhibits increased cost of apparent expression which leads to an increased rate of classics of apparent expression which leads to an increased rate of classics and cost saving advantage.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Making mutant 2,5-diketo-D-gluconic acid reductase enzymes with altered cofactor dependency, for producing 2-keto-L-gluconic acid from glucose in one fermentation step, comprises mutating a cofactor specificity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2,5-diketo-D-gluconic acid reductase A enzyme; cofactor sp cofactor dependency; metabolically engineered organism; en 2-keto-L-gluconic acid; glucose; single fermentation step; cassette mutagenesis; restriction site; pATP003.xb; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 1; Page 34; 45pp; English
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P-PSDB; AAU79911.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /*tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 partial
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   restriction site
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RESULT 126
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                                                                                                                               A method for treating airway disease in a subject has been produced, which involves the topical administration of an essentially adenosin free antisense oligonucleotide (ON) to the airway epithelium of the subject. The present sequence is an antisense oligonucleotide specific for the human IL6 receptor. The method can be used to treat airway diseases such as cystic fibrosis, asthma, chronic obstructive pulmonary disease, bronchitis and other airway diseases characterised by an inflammatory response. By eliminating adenosine the antisense ON, its liberation upon antisense degradation is prevented, thereby preventing adenosine-induced bronchoconstriction
                                                                                                                                                                                                                                                                                                                Treatment of airway diseases such as asthma - by topically applying adenosine-free antisense oligo:nucleotide to airway epithelium of
                                                                                                 Sequence 15
                                                                                                                                                                                                                                                                                                                                                                               Metzger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 represent the wild-type pATP003.xb restriction site #2 that encodes the wild-type pATP003.xb restriction site peptide #2. This sequence was used in the methods of the invention for cassette mutagenesis.
                                                                                                                          patients
                                                                                                                                                                                                                                                                             Example 5; Page 32; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                       WPI; 1997-051871/05
                                                                                                                                                                                                                                                                                                                                                                                                       (UYEC-) UNIV EAST CAROLINA
                                                                                                                                                                                                                                                                                                                                                                                                                                 07-JUN-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            chronic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Asthma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human IL6
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                                                            Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        airway epithelium; adenosine free; cystic fibrosis; obstructive pulmonary disease; bronchitis; interleukin; ss.
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GAGCCCGGAGGCCA 1
                                                                                                                        with hyper-reactive airways.
                    GAGCCCGGAGGCCA 2016
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGCGCCTCGAAGAGAA 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              receptor antisense oligonucleotide
                                                                                                 BP;
                                                 Conservative
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                                                                                               7 C;
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                                                                                                 3 T; 0 other;
                                                 Mismatches
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                                             1.4e+02;
hes 0;
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Matches Query Match Best Local (

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Conservative

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Similarity

100.0%;

Score 14; Pred. No.

DB 1; 1.4e+02

Length 15; Indels

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AAX54048/c
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                                                                                                                                                   antisense treatment of diseases and conditions. Typical diseases and conditions are those associated with impaired respiration and inflammation, including lung diseases, pulmonary vasoconstriction, inflammation, allergic rhinitis, acute asthma, allergies, asthma, imprespiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, pulmonary vasoconstriction, emphysema, chronical pulmonary hypertension, pulmonary vasoconstriction.
                                                                                                                                                                                                                                                                                  The specification describes antisense oligonucleotides (AAX52869-X55271) directed against at least 2 mRNAs selected from target genes, coding and non-coding regions of RNAs corresponding to target genes, gene initiation codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-end and the juxta-section between coding and non-coding regions and all segments of RNAs encoding the associated with one or more diseases, conditions or mixtures. The antisense oligonucleotides may be derived from sequences AAX55272-74. These multiple target oligonucleotides (specifically AAX55271) can be used for the appropriate of treatment of figures and conditions or mixtures.
                                       obstructive pulmonary disease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g. colon cancer, breast cancer, lung cancer, pancreatic cancer, hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, as well as all types of cancers which may metastasize or have metastasized to the lungs, including breast and prostate cancer.
    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   acute asthma; allergy; asthma; impeded respiration; respiratory distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary vasoconstriction; emphysema;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Antisense oligonucleotide; multiple target; antisense treatm impaired respiration; inflammation; lung disease; pulmonary vasoconstriction; inflammation; allergic rhinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAX54048 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 50; 120pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New antisense oligonucleotides used in treatment of, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1999-229400/19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  09-JUN-1998;
17-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17-SEP-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                prostate cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma; colon cancer; breast cancer; lung cancer; pancreatic cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human IL-6 receptor antisense oligonucleotide fragment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          05-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                vasoconstriction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO9913886-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UYEC-) UNIV
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    B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EAST CAROLINA.
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0 A;
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97US-0059160
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  7 C;
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    3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  antisense treatment;
                                                                                                                                                        emphysema, chronic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   pulmonary
                                                                                                                                                                                                    impeded
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ARESULT 128
ARAP19614/C
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AC AAP196
AC
                                                                                                   cumulating peptide factors and transmitters, transcription factors, immunoglobulins and antibodies, antibody receptors, cytokines and chemokines, endogenously produced specific and non-specific enzymes, binding proteins, adhesion molecules and their receptors, cytokine and chemokine receptors, adenosine receptors, binding proteins, adhesion molecules and their receptors, central nervous system (CNS) and peripheral nervous and non-nervous system receptors, central nervous and non-nervous system peptide transmitters, binding proteins and malignancy associated proteins. The antisense oligonucleotides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction and/or surfactant hypoproduction which are associated with a disease or condition selected from pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome (RDS), pain, cystic fibrosis (CP), allergic rhinitis (AR), pulmonary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     immunosuppressive, antiasthmatic, hypotensive and cytostatic activities The antisense oligonucleotides and (I) can be used to down-regulate the expression and or activity of target polypeptides associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention describes low adenosine (A) content antisense oligonuclectides and compositions (I) comprising them. In the antisense oligonuclectides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating cancers and respiratory obstructions - \frac{1}{2}
                              (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), pulmonary transplantation rejection, pulmonary infections, bronchitis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pulmonary hypertension; emphysema; pulmonary transplantation rejection;
chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 14; Page 209; 1592pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2000-679539/66
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAF19614 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         24-MAR-2000; 2000WO-US08020
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human; airway disorder; bronchoconstriction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14-MAR-2001
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J W.
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represent human polynucleotide
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                                                  The present invention describes a new composition comprising an CC antisense oligonucleotide (ON) with low adenosine (up to 15%), which CC targets nucleic acids involved in bronchoconstriction, allergies, and/or CC inflammation. The ON can have antiinflammatory, antiallergic, and can ariasthmatic, cytostatic and analyssic activities. The compositions are CC useful for the treatment of diseases associated with inflammation, CC impaired airways, including lung disease and diseases whose secondary ceffects afflict the lungs of a subject. They can be used for treating CC effects afflict the lungs of a subject. They can be used for treating CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies, CC asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive CC pulmonary disease (COPD), and cancers such as leukaemias, lymphomas, CC carcinomas, and cancers which may metastasise to the lungs, including the content of the content of the lungs, including the content of the content of the lungs.
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAA33492
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                                                                                                                                                                                                                                                                                                                                                                                                             New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstriction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
                  the ONs reduces side effects. The A-containing ONs break down with the release of deoxyadenosine which activates adenosine receptors causing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-205971/18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               03-AUG-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; adenosine receptor; low adenosine antisense oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Low adenosine antisense oligonucleotide SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            fragments and antisense oligonucleotides used in the exemplification of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EAST CAROLINA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            lymphoma; carcinoma; metastasis; ss.
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Pred. No.
                                    The A-containing ONs break down with the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB
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Best Local
                                                                                                                                                                                                                          The invention relates to the industry. The NR8 family haemopoietin receptor protein family NR8 genes. The NR8 family sequences were initially searched for comparison on a nucleic acid database with the nucleic acid probe sequence TGGAGYNNNTGGAGY encoding the amino acid sequence Trp-Ser-Xaa-Trp-Ser. The sequences the amino acid sequence Trp-Ser-Xaa-Trp-Ser. The sequences of probe hAZ59258-Z59300 and hAZ90816-Z90925 represent specific examples of probe sequences used in the search. Antibodies to the NR8 family proteins are used for the diagnosis of blood formation disorders. Compounds identified used for the treatment of such disorders.
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                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hemopoietin receptor protein family NR8 formation disorders -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 1; Page 41; 176pp; Japanese.
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1581 CTCCATGAACTCCA 1594
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                                                                                                           Similarity
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                                                                                                                                                                                         BP;
                                                                                Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RES INST MOLECULAR MEDICINE INC.
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98JP-0297409.
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                                                                                                                                                                                         1 C; 6
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                                                                                                                                    1.0%;
                                                                             k; Score 14; DB
k; Pred. No. 1.4
0; Mismatches
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Pred. No.
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0
                                                                                                                                                                                         other;
                                                                                1.4e+02;
hes 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         used
                                                                                                                                    DB 1;
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                                                                                                                               Length 15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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RESULT 131
AAF52667
                                                                                                                  Matches
                                                                                                                                                                          Query Match
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                                                                                                                                                                                                                                                                                          sclerotic disease,
blood vessels or ar
                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisucheic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Pactor 1 receptor; IGF-1; pityriasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-JUN-2000; 2000WO-AU00693.
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                                                                                                                                              Local Similarity
                                                       2329
                                                                                                               14;
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                                                    GTCTGGTCCTTCGG 2342
                                                                                                                                                                                                                                  BP; 0 A; 5 C; 5 G; 5 T; 0 other;
                                                                                                               Conservative
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                                                                                                                                                                                                                                                                                          any
                                                                                                                                                                                                                                                                                          kidney disease, hyperproliferation ny other hyperplasia.
                                                                                                                                        1.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Edmondson SR;
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                                                                                                                                              Score 14;
Pred. No
                                                                                                                     Mismatches
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                                                                                                                                                                          DB 1;
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RESULT

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AAP52671
ID AAP52671
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AXI
                                                                                          RESULT 133
AAH95775
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                                                                                                                                                                                                                                                                                                                                           Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [GF]-1 receptor. IGF binding protein [IGFBP]-2 or IGFBP], which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45131 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease;
AAH95775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 15 BP; 0 A; 4 C; 6 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30-MAR-2001
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                                                      AAH95775 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      retina, brain or skin, growth factor-mediated malignancies,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to a method for ameliorating the effects
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 8; Page 84; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          proliferation and/or inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nucleic acid that inhibits or reduces
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-041421/05
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (MURD-) MURDOCH CHILDRENS RES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IGF-I oligonucleotide #3631.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         erotic disease,
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                                                                                                                                                                                                                 TGGTCCTTCGGGGT 14
                                                                                                                                                                                                                                                                                                                                           Conservative
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    e, kidney disease, hyperproliferation of the inside of
any other hyperplasia.

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100.0%; Pred. No.
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                                                         BP.
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AAH95776
                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention provides nucleic acid molecules capable of downregulating the expression of the human checkpoint kinase-1 (Chk1) gene. These may be antisense or ribozyme sequences, and are useful in the treatment of diseases associated with conditions affected by Chk1 levels, including cancer. The present sequence is an oligonucleotide described in
                                                                                                                                                                                         09-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel nucleic acid molecule e.g., ribozymes or antisense nucleic acid molecules, which downregulates expression of a checkpoint kinase-1 gene, useful for treating colorectal, lung, breast or prostate cancer
                                                                                                                                                                                                                                       AAH95776 standard;
                                                                                                                                                                                                                                                                                                                                                                                              Sequence 17 BP; 6 A; 3 C; 6 G; 2 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                    the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-FEB-2001; 2001WO-US03504.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human Chkl ribozyme substrate SEQ ID NO: 1200.
                                 02-FEB-2001; 2001WO-US03504.
                                                          09-AUG-2001
                                                                                 WO200157206-A2
                                                                                                         Homo sapiens.
                                                                                                                               RNA cleavage;
                                                                                                                                          Human; checkpoint kinase-1; Chk1; antisense; ribozyme; gene therapy;
                                                                                                                                                                  Human Chk1 ribozyme substrate SEQ ID NO: 1201.
                                                                                                                                                                                                                  AAH95776;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 4; Page 88; 115pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fattaey AR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-FEB-2000; 2000US-0179983
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (RIBO-) RIBOZYME PHARM INC. (FATT/) FATTAEY A R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cleavage;
                                                                                                                                                                                                                                                                                                                         1730 CCCTGGGAGAAGGT 1743
                                                                                                                                                                                                                                                                                                                                                1 Similarity
12; Conserv
                                                                                                                                                                                                                                                                                                  4
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                                                                                                                                                                                                                                                                                                   CCCUGGGAGAAGGU 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Jarvis T,
                                                                                                                                                                                         (first entry)
                                                                                                                                cancer; ss.
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                                                                                                                                                                                                                                         RNA; 17
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                                                                                                                                                                                                                                                                                                                                                                                                                     invention.
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Pred. No. 1.6e+02;
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03-FEB-2000; 2000US-0179983

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RESULT 135
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XW RNA c1;
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Best Local :
                        The present invention provides nucleic acid molecules downregulating the expression of the human checkpoint gene. These may be antisense or ribozyme sequences, and the sequences of the sequence
                                                                                                                                                                                                         Novel nucleic acid molecule e.g., ribozymes or antisense nucleic acid molecules, which downregulates expression of a checkpoint kinase-1 gene, useful for treating colorectal, lung, breast or prostate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention provides nucleic acid molecules capable of downregulating the expression of the human checkpoint kinase-1 (Chk1) gene. These may be antisense or ribozyme sequences, and are useful in the treatment of diseases associated with conditions affected by Chk1 levels, including cancer. The present sequence is an oligonucleotide described in
                                                                                                                                    Claim 4;
                                                                                                                                                                                                                                                                                                                                                                         Fattaey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09-AUG-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; checkpoint kinase-1; Chkl; antisense; ribozyme; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAH95777;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cleavage;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           luding cancer. The present sequence exemplification of the invention.
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                                                                                                                              Page 88; 115pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCCUGGGAGAAGGU 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP; 5 A; 3 C; 7 G; 2 U; 0 other;
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of diseases associated

with

conditions affected

and are useful

by Chk1 levels,

for expressing

protein variants having desiring the proteins. The hGDMLP-1

mples, as amplification for the recombinant engineering

characterise

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polypeptides may

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ABNOSB

XX ABNOSB

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                     The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characteric and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant enging of hGDMLP-1 protein variants having desired phenotypic improvements.
                                                                                                                                                                                                                                                          New polypeptide, for raising antibodies that proteins, or as specific biomolecule capture surface-enhanced laser desorption ionization, myosin-like protein hGDMLP-1
                                                                                                                                                                                                               Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30-JAN-2001;
30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; genome-derived myosin-like protein 1; GDMLP-1;
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                              Rank
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                                                                                                                                                                                                                                                                                recognize hGDMLP-1 probes for comprises human
                                                                                                                                                                                                                                                                                                                                                                                                                              Chen
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heart disease;
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RESULT 137
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Matches
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21-SEP-2000;
27-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The polymucleotide sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present represent
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N.B. The sequence data for this patent did not specification, but was obtained in electronic at ftp.wipo.int/pub/published_pct_sequence.
                                        WPI; 2002-179446/23.
                                                                                                                                                                                                                                                                                                                                              25-MAY-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6889.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABN06897;
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2001WO-US00666.
2001WO-US00667.
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larity 100.0%; Pred. No. 1.6e+02;
Conservative 0; Mismatches 0;
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                                                                                                                       2001US-266860P
                                                                                                                                     2001WO-US00669
2001WO-US00670
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2001WO-US00661.
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2000US-234687P.
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                                                                Penn SG,
                                                                   Hanzel DK,
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                                                                   Shannon ME;
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New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for

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RESULT 138
ABN06898/c
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                                                                     04-OCT-2000;
30-JAN-2001;
30-JAN-2001;
           30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present
                                                                                                                                                                                                                                                                                                            Human; genome-derived myosin-like protein 1; GDMLP-1; muscle; myosin; chromosome 22; gene therapy; vaccine; skeletal muscle disorder; amplicon; screening; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            of hGDMLP-1 protein variants having desired phenotypic improvements, a for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABN06898 standard; DNA; 17 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    specification, but was obtained in electron at ftp.wipo.int/pub/published_pct_sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering
                                                                                                                      27-SEP-2000;
                                                                                                                                                     26-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                                            Human GDMLP-1
                                                                                                                                                                                                                                                                                                                                                                                                         29-MAY-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             substrates, of hGDMLP-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The
                                                                                                                                                                                      25-MAY-2001; 2001WO-US16981.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     invention.
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           2000GB-0024263.

2001WO-US00661.

2001WO-US00662.

2001WO-US00663.

2001WO-US00665.

2001WO-US00666.
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                                                                                                                                                       2000US-207456P.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                          SEQ ID
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. 1.6e+02;
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                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO:6890.
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                                                                                                                                                                                                                                                                                                                              hGDMLP-1; heart; heart disease;
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RESULT 139
ABN06899/c
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                                                                                                                                                                                                                                                                                                                                                                                    Matches
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30-JAN-2001;
30-JAN-2001;
05-FEB-2001;
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                                                                                                                              Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart;
                                                                                                                                                                                             29-MAY-2002
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                06-DEC-2001
                                             WO200192524-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     invention
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                                                                                                                                                                                                                                                                                                                                                       1358 CGCCTGGAAGAGAA 1371
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                                                                                                                                                                                                                                                                                                                                                                                      14;
                                                                                                      myosin;
l muscle
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                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 1 A; 6 C; 5 G; 5. T; 0 other;
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2001WO-US00670.
2001US-266860P.
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                                                                                                                                                                                          (first entry)
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                                                                                                                                                              17-mer
                                                                                                      chromosome 22; gene disorder; amplicon;
                                                                                                                                                             scanning
                                                                                                                                                                                                                                                                                                                                                                                                  1.0%; Score 14;
100.0%; Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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                                                                                                                    therapy; vaccine; heart disease;
                                                                                                                                                                                                                                                                                                                                                                                                  1.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                             sequence SEQ ID NO:6891.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        format directly from WIPO
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RESULT 140
AAQ24060
ID AAQ240
XX
AC AAQ240
XX
DT 08-JUN
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08-JUN-1992 AAQ24060; AAQ24060

(first entry)

standard; RNA; 17

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                                                       Query Match
Best Local S
Matches 14
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                                                                                                                                                                                                              particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific blomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1
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30-JAN-2001;
30-JAN-2001;
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30-JAN-2001;
30-JAN-2001;
                                                                                                                      Sequence
                                                                                                                                                  at ftp.wipo.int/pub/published_pct_sequence.
                                                                                                                                                                  N.B. The sequence data for this patent did not specification, but was obtained in electronic f
                                                                                                                                                                                                                                                            therapy. The polynucleotide sequences encoding hGDMLP-1 may be usidiagnosing a disorder associated with the expression of hGDMLP-1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gu Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure;
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                                                                                                                                                                                                 invention.
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14
                                                        l Similarity
14; Conserv
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                CGCCTGGAAGAGAA 1371
CGCCTGGAAGAGAA 1
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                                                        Conservative
                                                                                                                     BP; 1 A;
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                                                                                                                     6 C; 4 G;
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                                                                       Score 14; DB 1;
Pred. No. 1.6e+
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                                                          Mismatches
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                                                                                                                      other;
                                                        1.6e+02;
thes 0;
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RESULT 141
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misc_structure
                                                                                                                                                                                                                                                                                                                                                                                                          from HIV-2 (see AAQ21426). The only regions common to the two TAR structures are in the loop region and the U-rich bubble in the upper stem. This 17-mer was synthesised and can hybridise to a 14-mer (see AAQ24061) to mimic the known HIV-1 tat recognition sequence but without the apical loop. In an assay, the 17-mer plus 14-mer structure competed satisfactorily with full-length (59-mer) TAR for binding to tat. See AAQ21427-Q21435 for TAR mutants.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New HIV growth inhibiting oligo:nucleotide(s) - comprising binding sequences capable of binding to tat protein within and in assays to identify cpds. with tat binding
WO9715662-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The HIV-1 TAR stem-loop sequence (see AAQ21425) was compared to that from HIV-2 (see AAQ21426). The only regions common to the two TAR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    human immunodeficiency virus; tat protein; AIDS; hairpin loop;
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                          Mus sp
                                                 fms-like tyrosine kinase 1; kinase insert domain containing receptor;
foetal liver kinase 1; ss:
                                                                           tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
                                                                                         Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
                                                                                                                                  Mouse flt-1
                                                                                                                                                          28-JUL-1999
                                                                                                                                                                                                             AAX74934 standard; RNA; 17 BP
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                                                                                                                                                                                                                                                                                                                                           1.0%;
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                                                                                                                                                                                                                                                                                                                                Score 13.8; DB 1;
Pred. No. 1.8e+02;
2; Mismatches 2;
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Best Local
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(RIBO-)
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26-OCT-1995;
                                                  11-JAN-1996;
26-OCT-1995;
                                                                                                                                                                                                                Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease; fms-like tyrosine kinase 1; kinase insert domain containing receptor;
                                                                                                                                                                                                                                                                                   Mouse flt-1 VEGF receptor hammerhead ribozyme substrate #463.
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         (CHIR ) CHIRON CORP.
(RIBO-) RIBOZYME PHARM INC.
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Local Similarity 52.9%;
hes 9; Conservaring
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RIBOZYME PHARM INC.
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                                                                                                                                                                                                    kinase 1; ss
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95US-0005974.
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                                                                                                        Nucleic acid molecule modulating VEGF receptor(s) gene expression mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease; fms-11ke tyrosine kinase i; kinase insert domain containing receptor;
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26-OCT-1995;
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                                                    Claim 4; Page 169; 218pp; English
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95US-0005974.
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58.8%;
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present invention describes nucleic

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angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention.

expression ic examples

The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VEGF). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour receptor (KDR)) and (flk-1) (

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                                                                                                                               The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VEGP). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention.
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Vascular endothelial growth factor receptor; VEGF receptor; flt-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
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(RIBO-) RIBOZYME PHARM INC.
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95US-0005974.
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                                                                                          receptor hammerhead ribozyme substrate #462
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Pred. No. 1.8e+02;
7; Mismatches 2;
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RESULT 148
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XX Woscul
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KW fis-1;
KW fis-1;
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nucleic acid molecule modulating VEGF receptor(s) gene expression mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
   25-OCT-1996;
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                                                              WO9715662-A2
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95US-0005974.
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Pred. No. 1.8e+02;
5; Mismatches 2;
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RESULT 149
AAX72964
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DE MOUSE
XX VASCULL
XW LUMOUX
XW EIk-1;
XW LUMOUX
XW EOEtal
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                                                                                                               11-JAN-1996;
26-OCT-1995;
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              WPI; 1997-259017/23
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26-OCT-1995;
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95US-0005974.
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Pred. No. 1.8e+02;
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RESULT 150
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The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VEGF). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
                                                                                                                                                                                                               Nucleic acid molecule modulating VEGF receptor(s) gene expression mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
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26-OCT-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.8e+02;
ches 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                   or more
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Matches Query Match Best Local

Similarity 9; Conserv

Conservative

9

52.9%;

Score 13.8; Pred. No. 1. Mismatches

.8e+02 멂

Length

Indels

0;

Gaps

Ö

Sequence

17

B₽;

2 A;

3 C;

5 G; 7 U;

0 other;

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Best Local S
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention.
                        The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VEGP). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase in (flk-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 17
                                                                                                                                                                                                                  Nucleic acid molecule modulating VEGF receptor(s) mRNA stability - useful for treating e.g. tumour psoriasis, rheumatoid arthritis, etc., in a human
                                                                                                                                                                                                                                                                                                                                          (CHIR )
(RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      vascular endothelial growth factor receptor; VEGF receptor; ffk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular fms-like tyrosine kinase 1; kinase insert domain containing rfoetal liver kinase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAX71492
                                                                                                                                                                                                                                                                                                                                                                                      11-JAN-1996;
26-OCT-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                25-OCT-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-MAY-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human KDR VEGF receptor hammerhead ribozyme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   liver
                                                                                                                                                                                                                                                                                                                                           RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                           CHIRON CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               standard; RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GAACUUUUAAAGCUGAU 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAACTTTTTAAGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP; 6 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                             McSwiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  kinase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                      96US-0584040.
95US-0005974.
                                                                                                                                                                                                                                                                                                                                                                                                                                 96WO-US17480.
                                                                                                                                                                                      218pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 C;
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Pred. No. 1.8e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0 other;
                                                                                                                                                                                                                                                                                                             Stinchcomb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           substrate
                                                                                                                                                                                                                                                                                                              Ü
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 itis; ocular disease;
containing receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                                    gene expression angiogenesis,
                                                                                                                                                                                                                        patient
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
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RESULT 153
AAX71455
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AAX71456
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                                                                                                                                                           Query Match
Best Local Similarity
Matches 10; Conser
                                                                                                                                                                                                                                          The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VEGF). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                    Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
                           AAX71455 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                        Claim 4; Page 111; 218pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; reumatoid arthritis; coular disease; fms-like tyrosine kinase 1; kinase insert domain containing receptor;
AAX71455
                                                                                                                                                                                                                   Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-MAY-1997.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Escobedo J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26-OCT-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-JAN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-OCT-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     foetal liver kinase 1; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human KDR VEGF receptor hammerhead ribozyme substrate #468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAX71456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAX71456 standard; RNA; 17
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                                                                                                                              2113 ATGGAGTACTTGGCTTC 2129
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CHIRON CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGTGATGTCTGGTCCTT 2339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ||:|| |:|:||:| ::
AGUGACGUCUGGUCUUU 17
                                                                                                                                                                                                                   BP; 3 A; 3 C; 5 G; 6 U; 0 other;
                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               McSwiggen J, Pavco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       96US-0584040.
95US-0005974.
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                                                                                                                                                                       1.0%;
                            ВP
                                                                                                    17
                                                                                                                                                           'n
                                                                                                                                                         Score 13.8; DB 1;
Pred. No. 1.8e+02;
5; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               P, Stinchcomb
                                                                                                                                                           <u>ب</u>
                                                                                                                                                                                     Length 17;
                                                                                                                                                           Indels
                                                                                                                                                         0
                                                                                                                                                           Gaps
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RESULT 154
AAA18893
ID AAA1888
XX AAA188
AC AAA188
XX IP 19-JUh
DT 19-JUh
XX IP Human
XX Huma

Human TIE-2

substrate sequence SEQ ID NO:2119.

19-JUN-2000

(first entry)

AAA18893 standard;

RNA;

17

Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis; integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme; hammerhead ribozyme; angiogenic factor; cytostatic; antidiabetic; ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARND; dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis;

macular degeneration; inflammation; neovascular glaucoma,

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Matches

10;

Similarity

2112 CATGGAGTACTTGGCTT

2128 17

<u>ა</u>

Mismatches

0

Gaps

0

1.8e+02;

CAUGGAGUUCUUGGCAU

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Query Match
Best Local
                                                                            The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VEGF). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention.
                                                                                                                                                                                                                                                                                              Nucleic acid molecule modulating VEGF receptor(s) gene expression mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
                                               Sequence 17 BP; 3 A; 3 C; 5 G; 6 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-JAN-1996;
26-OCT-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Vascular endothelial growth factor receptor; VBGF receptor; flt-1; flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease; fms-like tyrosine kinase 1; kinase insert domain containing receptor;
                                                                                                                                                                                                                                                                 Claim 4; Page 111; 218pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                 Escobedo J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-OCT-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-MAY-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO9715662-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-JUL-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                  (CHIR ) CHIRON CORP.
(RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   foetal liver
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KDR VEGF receptor hammerhead ribozyme substrate
                                                                                                                                                                                                                                                                                                                                                                                                 McSwiggen
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95US-0005974.
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1.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                 Pavco P,
 Score 13.8;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                   Stinchcomb
             DB 1;
               Length 17;
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ARESULT 155
ARZ00939/c
ID ARZ009
XX
AC ARZ009
XY
PT 27-SEP
XX
DE PCR pr
XX
XX
PG1 ge
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                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAA23422 represent their corresponding target sequences. The ribozymes of the invention are used for modulating the synthesis, expression and/or stability of an mRNA encoding angiogenic factor, especially ARNT, integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are especially used to treat cancer, diabetic retinopathy, age related macular degeneration (ARND), inflammation, and arthritis, as well as neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris, angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome, and other syndromes and diseases related to the levels of ARNT, Tie-2, integrin subunit alpha-6, or integrin subunit beta-3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes enzymatic nucleic acid molecules with RNA cleaving activity, which specifically cleave RNA encoded by an aryl hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3 gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA1675 to AAA1761 to AAA1762 represent ribozyme sequences for RNT, and AAA17168 to AAA17631 to AAA17623 represent tribozyme sequences for RNT, and AAA17168 to AAA17634 represent tribozyme sequences; AAA17685 to AAA18385 and AAA19087 to AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086 and AAA19155 to AAA20361 and AAA1901 to AAA219155 to AAA20361 and AAA1501 to AAA21505 represent ribozyme sequences for Tie-3 and AAA21500 and AAA21506 to AAA21688 represent their corresponding target sequences; AAA21506 to AAA21688 represent their corresponding target sequences; AAA21506 to AAA21689 to AAA22168 and AAA23263 to AAA23342 represent ribozyme sequences; AAA21506 to AAA22475 and AAA23263 to AAA23342 represent ribozyme sequence for integrin subunit beta 3, and AAA22476 to AAA2362, AAA23343 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              myopic degeneration; psoriasis; verruca vulgaris; angiofibroma; tuberous sclerosis; pot-wine stain; Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-OCT-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
    PG1 gene; biallelic marker; PCR primer; PG1-related biallelic marker;
                                              PCR primer
                                                                                        27-SEP-1999
                                                                                                                                   AAZ00939
                                                                                                                                                                           AAZ00939 standard; DNA; 17 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 17 BP; 4 A; 1 C; 6 G; 6 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 56; Page 123; 305pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel ribozymes for modulating the synthesis, expression and/or stability of an mRNA encoding an angiogenic factors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1999-591315/50
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (RIBO-) RIBOZYME PHARM INC
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                                                                                                                                                                                                                                                                                                                           2344 GTGTTAATGTGGGAGAT 2360
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                                                                                                                                                                                                                                                                                                                                                                        Similarity 9; Conser
                                                                                                                                                                                                                                                                                     GUGUUÁCUAUGGGÁGÁU 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Roberts E,
                                              moPGrace5R444 for PG1
                                                                                        (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                       1.0%;
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                                                                                                                                                                                                                                                                                                                                                                      Score 13.8; DB 1; Length 17; Pred. No. 1.8e+02; 6; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Coeshott C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             McSwiggen JA;
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                                                                                                                                                                                                                                                                                                                                                                   Gaps
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27-MAY-1999 WO9925815-A2 Synthetic

PCR primer;

88

Transcription unit; MARK2 kinase; rsk3 kinase; regulatory region; T66Bk; contraceptive; Responder/Distorter signalling cascade; t-Responder;

PCR primer for cloning of T66Bk gene.

05-AUG-1999

(first entry

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RESULT 156
AAX76853/c
ID AAX768
XX AAX768
XX AAX768
XX PCR pr
XX PCR pr
XX Contra
KW Contra
KW PCR pr
XX Synthe
OS Synthe
OS Mus sp
XX PD 27-MAY
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a mammalian PG1 gene and protein, and a set of PG1 biallelic markers. The PG1 polynucleotide and biallelic markers are used in a hybridisation assay, a sequencing assay, or in an allele-specific amplification assay for determining the identity of a nucleotide at a PG1-related biallelic marker. The methods can be used to detect and to assess the risk of developing cancer or prostate specific Early-stage diagnosis of prostate cancer relies on prostate specific antigen (PSA) domage. However, the effectiveness of this is limited due to its inability to discriminate between malignant and non-malignant affections of the organ. A need exists for both a reliable diagnostic procedure which would enable early-stage diagnosis, and for preventative and curative treatments of the disease. The PG1 gene can be used for detection of prostate cancer, and the risk of developing it in the future, and can also be used to determine therapies for the disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                 AAX76853 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1999-405178/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Blumenfeld M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                        AAX76853;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 22; Page 104; 385pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        derived from it
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Use of a prostate cancer associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    09-SEP-1998;
22-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-JUL-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PSA; mouse; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cancer; prostate cancer; diagnosis; therapy; prostate specific antigen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2092 ACCTACCAGCTGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17 ACCTACCTGCTGGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1.0%;
|| Similarity 88.2%;
| 15; Conservation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 4 A; 4 C; 7 G; 2 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bougueleret
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-0099658
97US-0996306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98WO-IB02133.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 13.8;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Chumakov I,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .8e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 17;
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AAV91368/c
ID AAV913
XX AAV913
XX AAV913
XX IB-FEB
XX Human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This sequence is a PCR primer used in the cloning of the T66Bk gene.

CC The invention related to a nucleic acid molecule (I) comprising a CC transcription unit encoding in its 5' portion a kinase having a homology to MARKZ kinase and the 3' portion of the nucleotide sequence has a high containing (I) are useful for production of offspring. T66Bk, its CC containing (I) are useful for production of offspring. T66Bk, its CC regulatory region, recombinant DNA, vectors, host cells, antibodies, CC etc., are useful for the isolation of receptors on the surface of sperm CC recognising attractants of the egg cell for the development and/or production of contraceptives. They can also be used to identify chemicals CC or biological compounds able to trigger the (premature) activation or CC inhibition of the Responder/Distorter signalling cascade, or to identify CC and isolate receptors and other members of the cascade that bind the CC expression products. The methods for detecting the sperm of the CC distorting the transmission ratio of genetic traits by altering genes of the Responder/Distorter signal cascade other than the t-responder. They also allow distortion, to a non-Mendelian ratio, of the transmission of a CC offspring by expression during apermanogenesis/spermiogenesis a gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local
                                                                                                                          target; substrate; catalyst; modulation; expression; Raf gene; delivery; screening; identification; synthesis; deprotection; purification; cancer; inflammation; psoriasis; non-hepatic ascites; infection; genetic drift; restenosis; rheumatoid arthritis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            offspring by expressing during spermatogenesis/spermiogenesis a gene involved in sperm motility and/or fertilisation. The genes and proteins involved in the responder phenotype and Responder/Distorter signalling cascade, as well as the inventive methods are advantageous in breeding strategies by allowing for specific selection of genetic traits and in particular, of sex.
  12-NOV-1998
                                                                                                                                                                                                                   Human;
                                                                                                                                                                                                                                                         Human C-raf target site nucleotide position 2752.
                                                                                                                                                                                                                                                                                                       18-FEB-1999
                                                                                                                                                                                                                                                                                                                                                                                       AAV91368 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                               AAV91368;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 17 BP; 3 A; 7 C; 3 G; 4 T; 0 other;
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18-NOV-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2272 GTCAAGTGGATGGCTCC 2288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17
                                                                                                                                                                                                                 c-raf; A-raf; B-raf; hammerhead ribozyme; hairpin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
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                                                                                                                                                                                                                                                                                                     (first
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97EP-0120190.
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                                                                                                                                                                                                                                                                                                     entry)
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Pred. No. 1.8e+02;
0; Mismatches 2;
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                                                                                                                                                                                                              ribozyme;
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ARV911369/c
ID AAV9113
XX AAV911
XX AAV911
XX IB-FEE
XX IB-FEE
XX Human
XX

18-FEB-1999 AAV91369;

(first entry)

AAV91369 standard; RNA;

17

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Human; c-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribotarget; substrate; catalyst; modulation; expression; Raf genu delivery; screening; identification; synthesis; deprotection

ribozyme; gene; ascites;

psoriasis; non-hepatic

Human C-raf target site nucleotide position

2753.

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                             S
                                                                                                                                    cc capable of modulating a process in a biological system. The method comprises: (a) introducing into the system a random library of nucleic acid catalysts (NAC) having a substrate binding domain (SBD), comprising a random sequence, and a catalytic domain (CD); and (b) identifying NAC in systems where modulation has occurred and/or determining the sequence of at least part of the SBDs in such systems. Nucleic acid molecules with endonuclease activity and catalytic activity, from the present convention, are used to modulate gene expression in plant and mammalian cells and to cleave target nucleic acid, particularly for treating systemic diseases caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic ascites and infection. They may also be used to detect genetic drift and mutations in diseased cells and to determine correspond to the Raf gene, are used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or generally any condition associated with the level of c-raf. Introduction of sugar/phosphate modifications in conditions that can be used in the method, specifically for represent NACs that can be used in the method, specifically for
                                                                 Matches
                                                                                 Query Match
Best Local
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Karpeisky F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying new catalytic nucleic acid that modulates selected processes - especially ribozymes that cleave Raf RNA for treat: cancer, restenosis, and also new ribozymes and modified nucleo triphosphates used as antiviral agents and synthons
                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A method has been developed for the identification of a nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 177; Page 153; 259pp; English.
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02-OCT-1997;
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17
                                                                 15;
                                                                                  Similarity
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                 GCGCCTGGAAGAGAAAA 1373
GCTCCTGGAAGACAAAA 1
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Reynolds M,
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, Kisich K, Matulic-Adamic J, McSwiggen JA,
eynolds M, Sweedler D, Thompson J, Workman
                                                                 Conservative
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97US-0061321.
97US-0061324.
                                                                                                                                                                    expression of a Raf gene.
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97US-0051718.
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97US-0046059
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                                                                                                                                  4 C; 4 G; 7 U;
                                                                                 1.0%;
88.2%;
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                                                               Score 13.8; Di
Pred. No. 1.8e
0; Mismatches
                                                                                                                                  0 other;
                                                                               1.8e+02;
                                                                                                 DB 1;
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                                                                                               Length 17;
                                                                 Indels
                                                               <u>,,</u>
                                                                 Gaps
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RESULT 159
AAF04325/c
ID AAF043
XX
AC AAF043
XX
AC AAF043
XX
DT 16-FEB
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                                                                                                                                                                                                                                                                                        cc capable of modulating a process in a biological system. The method comprises: (a) introducing into the system a random library of nucleic acid catalysts (NAC) having a substrate binding domain (SBD) comprising care arandom sequence, and a catalytic domain (CD); and (b) identifying NAC in systems where modulation has occurred and/or determining the sequence of at least part of the SBDs in such systems. Nucleic acid molecules with endonuclease activity and catalytic activity. From the present compension, are used to modulate gene expression in plant and mammalian cells and to cleave target nucleic acid, particularly for treating systemic diseases caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic ascites and infection. They may also be used to detect genetic drift and mutations in diseased cells and to determine cert genetic drift and mutations in diseased cells and to determine cert genetic drift and mutations in diseased cells and to determine cert RNA. Specifically NACs with RNA-cleaving activity that modulate expression of the Raf gene, are used to treat cancer, restenosis, components or rheumatoid arthritis, or generally any condition associated with the level of c-raf. Introduction of sugar/phosphate modifications increases stability against nuclease and activity. AAV9992z to AAV93877 crepresent NACs that can be used in the method, specifically for modulating the expression of a Raf gene.
                                                                                                                                                                                                                                     Query Match
Best Local (
                                                                                                                                                                                                                       Matches
 16-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             processes - especially ribozymes that cleave Raf RNA for treating cancer, restenosis, and also new ribozymes and modified nucleoside triphosphates used as antiviral agents and synthons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Beaudry A,
                                 AAF04325;
                                                                  AAF04325 standard; DNA; 17
                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A method has been developed for the identification of a nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 177; Page 153; 259pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1999-009494/01.
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                                                                                                                                                                                    1356 AGCGCCTGGAAGAGAAA 1372
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, Kisich K, Matulic-Adamic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 new catalytic nucleic acid that modulates selected
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(first entry)
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97US-0061321.
97US-0061324.
97US-0064866.
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97US-0051718.
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                                                                                                                                                                                                                                                                                      4 C; 4 G; 7 U; 0
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                                                                                                                                                                                                                    Score 13.8; DB 1;
Pred. No. 1.8e+02;
0; Mismatches 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Burgin A, Jarvis
mic J, McSwiggen
                                                                                                                                                                                                                                                                                        other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Jarvis T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Workman
                                                                                                                                                                                                                                                   Length 17;
                                                                                                                                                                                                                       Indels
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                                                                                                                                                                                                                       Gaps
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RESULT 160
AAF04773/c
ID AAF0477
XX AAF0477
XX AAF047
XX IO AAF047
XX 
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to enzymatic and antisense nucleic acid molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription factor gene, IRF-2 and/or the CAATT Displacement Protein (CDP). Inhibition of the repressors removes prevents inhibition (and consequently increases expression of) genes involved in the production of erythropoietin, granulocyte colony stimulating factor representations.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Enzymatic and antisense nucleic acid inhibition of repressor genes, useful for producing e.g. granulocyte colony stimulating factor protein, interferon alpha and erythropoietin -
                                                                                12-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAF04773 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ribozyme; erythropoietin; granulocyte colony stimulating factor;
                                 (RIBO-) RIBOZYME PHARM INC
                                                                                                                                    11-APR-2000; 2000WO-US09721.
                                                                                                                                                                                                                                              WO200061729-A2
                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                 Ribozyme; erythropoietin; granulocyte colony stimulating factor; interferon alpha; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                  Hammerhead ribozyme substrate #2289.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAF04773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein and interferon alpha.
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                                                                                                                                                                                         L9-OCT-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                interferon alpha;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCAGTTTTTACTCCAGA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1.0%;
nilarity 88.2%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 7 A; 2 C; 4 G; 4 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99US-0129390
                                                                                9905-0129390
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               В₽
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 13.8; DB 1;
Pred. No. 1.8e+02;
0; Mismatches 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0 other;
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RESULT 161
AAF07201
ID AAF072
XX AAF072
XX AAF072
XX Hammer
XX Hibozy
KW Interf
XX Homo 8
XX W02000
XX HOMO 9
XX I1-APR
XX II-APR
XX II-
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Best Local (
                    The present invention relates to enzymatic and antisense nucleic acid molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription factor gene, IRF-2 and/or the CAATT Displacement protein (CDP). Inhibition of the repressors removes prevents inhibition (and consequently increases expression of) genes involved inhibition of erythropoietin, granulocyte colony stimulating factors the production of erythropoietin, granulocyte colony stimulating factors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to enzymatic and antisense nucleic acid molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription factor gene, IRF-2 and/or the CAATT Displacement protein (CDP). Inhibition of the repressors removes prevents inhibition (and consequently increases expression of) genes involved the production of erythropoletin, granulocyte colony stimulating fact
                                                                                                                                                                                                                                                                                                     Enzymatic and antisense nucleic acid inhibition of repressor genes, useful for producing e.g. granulocyte colony stimulating factor protein, interferon alpha and erythropoietin -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Enzymatic and antisense nucleic acid inhibition of repressor genes, useful for producing e.g. granulocyte colony stimulating factor protein, interferon alpha and erythropoietin -
                                                                                                                                                                                                                                                 Claim 54; Page 135; 164pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2000-647423/62.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Blatt L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
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nilarity 88.2%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99US-0129390
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           McSwiggen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    colony stimulating factor;
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ches 2;
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Matches Query Match Best Local

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Score 13.8; Pred. No. 1.8

1.8e+02;

DB 1;

Length 17;

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Mismatches

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Sequence 17

BP; 5 A;

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RESULT 162
AAZ59070
ID AAZ590
XX HUV-1
XX ALUOTE
XX HUMAN
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XX HUMAN
XX HUMAN
XX RIBO
PR 04-JUN
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                                                                                 The invention relates to a method of determining if a compound binds to CC a target RNA by treating a test compound with a reporter (R) labelled CC with a donor or acceptor group and labelled target RNA, labelled with CC the complementary donor or acceptor group, and measuring the CC fluorescence from fluorescent groups associated with a compound:target CC RNA complex in presence of the test compound and comparing the result CC with a standard. The oligonucleotides AAZ59070-Z59071 anneal to form a CC double stranded oligonucleotide containing the HIV-1 trans-activation CC regulatory region (TAR) to which the HIV-1 Tat protein binds. The complex CC is labelled with 6-carboxyfluorescein and is used as a target for the binding of a labelled ADP-1 protein. Detection of the complex is by CC fluorescence resonance energy transfer (FRET). The method is used to identify compounds that interfere with interaction between the target RNA and ligands or proteins. Compounds that are identified are potentially CC useful for treating infections (viral, bacterial or fungal), cancer and autolimmune diseases. The compounds are preferably directed to the CC wisal acceptance of human immunodeficiency virus RNA and inhibit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              s.×
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Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Antiviral; antibacterial; antifungal; anticancer; detection; TAR; fluorescence resonance energy transfer; tat; HIV-1; Rev response autoimmune disease; trans-activation regulatory region; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 17
                                                                 viral replication.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Examples; Page 31; 82pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying compounds that bind to target RNA, potentially useful creating infections, tumors and autoimmune diseases
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (RIBO-) RIBOTARGETS LTD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Prescott CD;
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Conservative
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Pred. No. 1.8e
0; Mismatches
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RESULT 164
ABKO0844/c
ID ABKO08
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XX Human;
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                                                                                                                                                                                                                                        Query Match
Best Local
                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                           The present invention provides nucleic acid molecules capable of downregulating the expression of the human checkpoint kinase-1 (Chk1) gene. These may be antisense or ribozyme sequences, and are useful in the treatment of diseases associated with conditions affected by Chk1 levels,
Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic; cerebroprotective; nootropic; neuroprotective; antiparkinsonian; muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme
                                                  Human NOGO
                                                                         12-MAR-2002
                                                                                                  ABK00844;
                                                                                                                      ABK00844 standard; RNA; 17
                                                                                                                                                                                                                                                                            Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                   Claim
                                                                                                                                                                                                                                                                                                                                                                                                                  Novel nucleic acid molecule e.g., ribozymes or antisense nucleic acid molecules, which downregulates expression of a checkpoint kinase-1 gene, useful for treating colorectal, lung, breast or prostate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (RIBO-)
(FATT/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RNA cleavage;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; checkpoint kinase-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human Chk1 ribozyme substrate SEQ ID NO: 430
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAH95005;
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                                                                                                                                                                                                                                                                                                  luding cancer. The exemplification
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                                                                                                                                                                                                                                          Similarity
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                                                                                                                                                                                 AAAAUCUCAGACUUUGG 17
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                                                 Inozyme
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                                                                        (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                  61; 115pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cancer;
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                                                  #114.
                                                                                                                                                                                                                                        1.0%;
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                                                                                                                                                                                                                                                                                                   invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Chk1; antisense; ribozyme; gene therapy;
                                                                                                                                                                                                                                        Score 13.8; DB 1;
Pred. No. 1.8e+02;
                                                                                                                                                                                                                               Mismatches
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                                                                                                                                                                                                                                                    Length 17;
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The invention relates to a nucleic acid molecule which down regulates cappression of a CD20 gene and a nucleic acid molecule which down CC regulates expression of a neurite growth inhibitor gene (NOGO).

CC The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a CC DNAzyme) an Inozyme (an endolytic nucleic acids (e.g. a ribozyme or a CC DNAzyme) an Inozyme (aleaving RNA with a NGN triplet), a zinzyme (cleaving RNA with a NGN triplet), a zinzyme CC motif) pr an amberzyme (cleaving RNA with a NGN triplet), a zinzyme CC coleaver RNA of CD20 in the presence of a divalent cation that is CC preferably Mg.2^+. Furthermore, it may be contacted with a cell to reduce CC cD20 activity of the cell and treat a patient having a condition CC associated with the level of CD20. The treatment may further comprise the CC use of one or more therapies. In particular, the CD20 targetting CC lymphoma. low-grade or follicular NnL, lymphoma, leukaemia, B-cell lymphoma low-grade or follicular non-Hodgkin's lymphoma (NHL), bulky CC lymphoma. The CD20. send the NGCO. The thrombocytoma (IMC), small B-cell lymphoma, leukaemia, HIV (human CC immunocytoma (IMC), small B-cell lymphocytic leukaemia, HIV (human CC immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune CC immunocytoma immune associated NHL, mantie-cell lymphoma, immune CC divalent cation that is preferably Mg.2^+. Furthermore, the nucleic acid CC may be contacted with a cell to reduce NGO activity of the cell and CC treat a patient having a condition associated with the level of NGO. The treatment may further comprise the use of one or more therapies.

CC Intertal nervous system (NGO) inture and cerebroyascular accident (CVA.
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(BLAT/)
(MCSW/)
                                                                                                         central nervous system (CNS) injury and cerebrovascular accident (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS), chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia; human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma; MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia; inflammatory arthropathy; central nervous system injury; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; Parkinson's disease; ataxia; Huntington's disease;
                                                                 disease, musc
states which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 88; Page 79; 200pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and central nervous system injury
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Blatt L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-FEB-2000;
06-MAR-2000;
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Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNAzyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia;
B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11-FEB-2000;
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CHOWRIRA B M
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BLATT L.
                                                                 muscular dystrophy, and/or other neurodegenerative
hich respond to the modulation of NOGO expression. T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   McSwiggen J,
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; 2000US-185516P.
; 2000US-187128P.
                                                               respond to
                                          is an inozyme of
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RESULT 165
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ID ABK0362
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AC AB
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Best Local Similarity
Matches 15; Conserv
The invention relates to a nucleic acid molecule which down regulates expression of a CD20 gene and a nucleic acid molecule which down regulates expression of a neurite growth inhibitor gene (NGGO).

The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a DNAzyme) an Inozyme (an endolytic nucleic acid cleaving a an RNA molecule possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN cleaving by a numberzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA with a relation that is preferably Mg'2^+. Furthermore, it may be contacted with a cell to reduce CD20 activity of the cell and treat a patient having a condition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11-FEB-2000;
28-FEB-2000;
06-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic; cerebroprotective; nootropic; neuroprotective; antiparkinsonian; muscular; CD20; neurite growth inhibitor gene; NGO; hammerhead ribozyme; muscular; CD20; neurite growth inhibitor gene; NGO; hammerhead ribozyme; DNAzyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia; B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia; human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma; NCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia; inflammatory arthropathy; central nervous system injury; central nervous system injury; central nervous system injury; central central sclerosis; ALS; chemotherapy induced neuropathy; amyotrophic lateral sclerosis; ALS; parkinson's disease; ataxia; Huntington's disease; creuterfeld-t-lakeh disease; ataxia; Huntington's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and central nervous system injury
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nucleic acid molecules, e.g.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (RIBO-)
(BLAT/)
(MCSW/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABK03622 standard; RNA; 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        McSwiggen J,
                                                                                                                                                                                                                                                                                                                                                                                     Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; 2000US-181797P.
; 2000US-185516P.
; 2000US-187128P.
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                                                                                                                                                                                                                                                                                                                                                                                 160; 200pp; English
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Pred. No. 1.8e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           enzymatic nucleic acids and antisense
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(RIBO-) (BLAT/) (MCSW/)

MCSWIGGEN J. RIBOZYME PHARM 09-FEB-2001;

16-AUG-2001

WO200159103-A2

11-FEB-2000; 28-FEB-2000;

2000US-181797P. 2000US-185516P. 2001WO-US04273

2000US-187128P

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RESULT 166
ABK03757
ID ABK03757
XX
AC ABK037
XX
DT 12-MAI
DT 12-MAI
DX Human
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DNA2)
KW Human
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Matches 13; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Creutzfeldt-Jakob disease; muscular
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1701 TCCAAGAGATAAGCTGA 1717
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Pred. No. 1.8e
2; Mismatches
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ABSULT 167
ABV789
ID ABV788
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CC associated with the level of CD20. The treatment may further comprise the
CC use of one or more therapies. In particular, the CD20 targetting
CC nucleic acid may be used to treat lymphoma, leukaemia, B-cell
CC lymphoma, low-grade or follicular NnL, lymphocytic leukaemia, B-cell
CC lymphoma, low-grade or follicular NnL, lymphocytic leukaemia, HIV (human
CC immunodeficiency virus) associated NnL, mantle-cell lymphoma (MCL),
CC immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune
CC thrombocytopaenia, and inflammatory arthropathy. The NOGO-targetting
CC divalent cation that is preferably Mg^2+. Furthermore, the nucleic acid
CC divalent cation that is preferably Mg^2+. Furthermore, the cell and
CC treat a patient having a condition associated with the level of NOGO. The
CC treatment may further comprise the use of one or more therapies.
CC in particular, the NOGO-targetting nucleic acid may be used to treat
CC central nervous system (CNS) injury and cerebrovascular accident (CVA,
CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (MS),
CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),
CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),
CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),
CC chemotherapy-induced neuropathy, and/or other neurodegenerative disease
CC grassent sequence is an amberzyme molecule of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mortify an Inozyme (an endolytic nucleic acids (e.g. a ribozyme or a possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) and cleaving RNA with a NYN with an Math and triplet), a zinzyme (cleaving RNA with a YGY motif). The CD20-targetting nucleic acid is used to cleave RNA of CD20 in the presence of a divalent cation that is preferably Mg^2^+. Furthermore, it may be continued.
                                                                                                Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1; human testis expressed Patched like protein; testis; adrenal; liver; male germ cell development; bone marrow; brain; kidney; lung; placen prostate; skeletal muscle; colon; male infertility; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia,
                                   Homo sapiens
                                                                                                                                                                                                                                                                        Human HTPL scanning
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABV78899 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 30; Page 168; 200pp; English
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                                                                                                                                                                                                                                                                                                                                                (first
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                                                                                                                                                                                                                                                                        oligonucleotide SEQ
                                                                                                                                                                                                                                                                                                                                                entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.0%;
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Pred. No. 1.8e
3; Mismatches
                                                                                                                                                                                                                                                                            ID 145
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.8e+02;
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down
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                                                                                                                                    placenta;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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cc has two isoforms, with a few single base pair differences between the codon in HTPL-9 (S for short) compared to HTPL-1 (I for long). HTPL cc shares an overall structure organisation with the Patched protein. The charge structured organisation with the Patched protein. The cc important in regulating male germ cell development, and the HTPL is cuseful for diagnosing a disorder caused by mutation in HTPL, and in cc therapy and manufacture of a medicament for treatment or prevention of such disorder associated with decreased expression or activity of human ccolon function. HTPL proteins and cuseful tand cancer. The cc skeletal muscle or colon function. HTPL proteins and nucleic acids are cclinically useful diagnostic markers and potenial therapeutic agents for male infertility and cancer. The present oligonucleotide was used in an cc example from the invention.
RESULT 168
ABV80430/C
ID ABV804
XX
AC ABV804
XX
AC ABV804
XX
DT 03-JAN
XX
DE Human
XX
KW Human;
KW Human;
KW male g
KW prosta
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Best Local
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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
                            Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1; human testis expressed Patched like protein; testis; adrenal; liver; male germ cell development; bone marrow; brain; kidney; lung; placenta; prostate; skeletal muscle; colon; male infertility; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel isolated human testis expressed Patched like protein useful for identifying agonist and antagonist and specific partners, and for treating subjects having defects in HTPL
                                                                                                                                                                 Human HTPL scanning
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                                                                                                                                                                                                                                                                                                                                        ABV80430
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 Similarity 15; Conserv
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                                                                                                                                                                                                                                                                                                                                        standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCACAAGCTGACCAAAC 1534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCCCAAGCTCACCAAAC
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2001WO-US00667.
2001WO-US00668.
2001WO-US00669.
2001US-0864761.
2001US-0327898.
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                                                                                                                                                                                                                          (first entry)
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2001WO-US00664.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.0%;
                                                                                                                                                                    oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 C;
                                                                                                                                                                                                                                                                                                                                           17
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Pred. No. 1.8e+02;
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                                                                                                                                                                    SEQ ID
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RESULT 169
ABV09/C
ID ABV09/C
ID ABV09/B
XX
AC ABV09/A
XX
C
DT 23-DEC
XX
DE Human
XX
Human;
XW Human;
XW Gene t
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                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    shares an overall structure organisation with the Patched protein. The shared structural features strongly imply that HTPL plays a role similar to that of Patched, and is a potential tumour suppressor. HTPL is important in regulating male germ cell development, and the HTPL gene was mapped to human chromosome 10p12.1. HTPL and its coding sequence are useful for diagnosing a disorder caused by mutation in HTPL, and in therapy and manufacture of a medicament for treatment or prevention of such disorder associated with decreased expression or activity of human HTPL. Such disorders include disorders of testis, or adrenal, adult and foetal liver, bone marrow, brain, kidney, lung, placenta, prostate, skeletal muscle or colon function. HTPL proteins and nucleic acids are clinically useful diagnostic markers and potenial therapeutic agents for male infertility and cancer. The present oligonucleotide was used in an example from the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel isolated human testis expressed Patched like protein useful for identifying agonist and antagonist and specific partners, and for treating subjects having defects in HTPL
               Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene; Rho GTPase; signal transduction; gene expression; cancer; vaccine;
                                                                      Human POSHL1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to human testis expressed Patched like protein (HTPL, see ABV78759 to ABV78762 and ABB98519 to ABB98520). HTPL has two isoforms, with a few single base pair differences between the two. One of the single base pair changes introduces a premature stop codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL codon in HTPL-S (S for short) compared to HTPL-L (L for long).
                                                                                                            23-DEC-2002
                                                                                                                                                ABV89409
                                                                                                                                                                                ABV89409 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 17 BP; 5 A; 2 C; 1 G; 9 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          male infertility and cancer. The example from the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 2; Page 283; 718pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-676582/73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Zhan J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30-JAN-2001;
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                                                                                                                                                                                                                                                                                                            2186 ATGTGATGAAAATAGCA 2202
therapy; transgenic;
                                                                                                                                                                                                                                                                             17
                                                                                                                                                                                                                                                                                                                                                                 Similarity
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2001WO-US00664.

2001WO-US00667.

2001WO-US00667.

2001WO-US00668.

2001WO-US00668.

2001WO-US00669.

2001US-0864761.

2001US-08647619.
                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                      scanning oligonucleotide SEQ ID NO 122.
                                                                                                            (first entry)
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                                                                                                                                                                                    ВP
                                                                                                                                                                                                                                                                                                                                                  0,
                                                                                                                                                                                                                                                                                                                                                                 Score 13.8; DB 1;
Pred. No. 1.8e+02;
                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                  Length 17;
                                                                                                                                                                                                                                                                                                                                                Indels
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                                                                                                                                                                                                                                                                                                                                              0;
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RESULT 170
ABV89410/c
ID ABV894
XX
AC ABV894
XX
AC ABV894
XX
AC ABV894
XX
AC ABV894
XX
DT 23-DEC
XX
DT Human
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                                                                                                                                                                                                                                                                                                     The invention relates to an isolated SH3 domain (POSH)-like signalling protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino (C acids (S1) ABB83999), a sequence having 65% sequence identity to (S1), (CC (S1) having 95% deviations, especially conservative substitutions or a CC fragment of the sequences comprising at least 8 contiguous amino acids. (C Human POSHL 1 is a proto-oncogene/oncogene product that functions as an C adaptor protein that interacts with Rho family small GTPases as well as CC downstream components of the signal transduction pathway. (I) is useful CC for identifying a specific binding partner. (I) and nucleic acids (II) (C encoding (I) are useful for diagnosing, monitoring disease and treating CC caused by altered expression of human POSHL1 including diagnosing and CC transgenic non-human animals capable of constructing microarrays which CC are useful for measuring and for surveying gene expression and creating CC transgenic non-human animals capable of producing the proteins. The CC of the invention.
                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                   Query Match
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30-JAN-2001;
30-JAN-2001;
                                23-DEC-2002
                                                              ABV89410;
                                                                                           ABV89410 standard;
                                                                                                                                                                                                                                                                                                                               Note: The present sequence did not form part of the printed specification, but is based on sequence information supplied to by the European Patent Office.
                                                                                                                                                                                                                                                                                                  Sequence 17 BP; 6 A; 4 C; 5 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 2; SEQ ID NO 122; 60pp + Sequence Listing; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  expression or activity of human POSHL1 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide, POSHL-1, useful for treating disorders associated with decreased
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-684061/74.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Shannon
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                                                                                                                                                                                          1564 TCGGCTGAGTCCAGCTC 1580
                                                                                                                                                                                                                                     1 Similarity
15; Conserv
                                                                                                                                                                        TCTGCTGAGTTCAGCTC
                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2001WO-US00667.
2001WO-US00668.
2001WO-US00669.
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2001WO-US00665.
2001WO-US00666.
                               (first entry)
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2001US-0864761.
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                                                                                           DNA; 17
                                                                                                                                                                                                                                                  88.2%;
                                                                                                                                                                                                                                                                    1.0%;
                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                    Score 13.8; DB 1;
Pred. No. 1.8e+02;
                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                   Length 17;
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                                                                                                                                                                                                                                     0,
                                                                                                                                                                                                                                   Gaps
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Human POSHL1 scanning oligonucleotide SEQ ID NO

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RESULT 171
ABN06320
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                                                                                                                                                                                                                              AXI
                                                                                                                                                                                 Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                                               protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino acids (S1, ABB8399), a sequence having 65% sequence identity to (S1), (S1) having 95% deviations, especially conservative substitutions or a fragment of the sequences comprising at least 8 contiguous amino acids. Human POSHL 1 is a proto-oncogene/oncogene product that functions as an adaptor protein that interacts with Rho family small GTPases as well as downstream components of the signal transduction pathway. (I) is useful for identifying a specific binding partner. (I) and nucleic acids (II) encoding (I) are useful for diagnosing, monitoring disease and treating caused by altered expression of human POSHLI including diagnosing and treating cancer, they useful in the development of vaccines and (II) is useful for measuring and for surveying gene expression and creating transgenic non-human animals capable of producing the proteins. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene; Rho GTPase; signal transduction; gene expression; cancer; vaccine; gene therapy; transgenic; ss.
                            ABN06320 standard; DNA; 17
                                                                                                                                                                                                                             Sequence 17
                                                                                                                                                                                                                                                         Note: The present sequence did not form part of the printed specification, but is based on sequence information supplied by the European Patent Office.
                                                                                                                                                                                                                                                                                                                    present sequence is that of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to an isolated SH3 domain (POSH)-like
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide, POSHL-1, useful for treating disorders associated with decreased expression or activity of human POSHL1 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-684061/74
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23-MAY-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-SEP-2002
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                                                                                                                                                                                                                                                                                                      the invention.
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                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2; SEQ ID
                                                                                                                        TTCGGCTGAGTCCAGCT 1579
                                                                                                     TTCTGCTGAGTTCAGCT 1
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2001US-0864761.
2001US-0328205.
                                                                                                                                                                  Conservative
                                                                                                                                                                                                                             BP; 7
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2001WO-US00667.
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                                                                                                                                                                                                                           A; 4 C; 4 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NO 123; 60pp + Sequence Listing; English
                                                                                                                                                                                 88.2%;
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                            В₽
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                                                                                                                                                                                                                                                                                                                    a scanning oligonucleotide
                                                                                                                                                                                 Score 13.8; DB 1;
Pred. No. 1.8e+02;
                                                                                                                                                               Mismatches
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                                                                                                                                                                  Indels
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ABN06320

Query Match

Sequence

17 BP;

3 A;

9 C; 4 G; 1.0%;

1 T;

0 other;

Score 13.8;

DB 1;

Length 17

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The present invention describes a human genome-derived myosin-like CC protein 1 (hGDMLP-1). The protein and polynucleotide sequences of CC hGDMLP-1 can be used in gene therapy and vaccine production. The CC hGDMLP-1 nucleic acids can be used as probes to detect, characterise CC hGDMLP-1 nucleic acids can be used as probes to detect, characterise CC and quantify hGDMLP-1 nucleic acids in samples, as amplification CC substrates, to provide initial substrates for the recombinant engineering CC of hGDMLP-1 protein variants having desired phenotypic improvements, and CC for expressing the proteins. The hGDMLP-1 proteins or polypeptides may CC be used as immunogens to raise antibodies that specifically recognise CC hGDMLP-1 proteins, as standards in assays used to determine the CC concentration and/or amount specifically of hGDMLP proteins, as specific CC deficiency in hGDMLP-1 production, and in vaccines or for replacement CC diagnosing a disorder associated with the expression of hGDMLP-1, in CC chromosome 22. The present sequence represents an oligomer used in the creening of the hGDMLP-1 sequence in the exemplification of the present
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30-JAN-2001;
30-JAN-2001;
invention.

N.B. The sequence data for this patent did not form specification, but was obtained in electronic format at ftp.wipo.int/pub/published_pct_sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1 -
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RESULT 172
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      The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect. Characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific
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                                                                                                                                                                                                                    myosin-like
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30-JAN-2001;
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                                                      New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human
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30-JAN-2001;
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21-SEP-2000;
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Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO:5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                               Rank DR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence SEQ ID NO: 9075
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                                                                                                                               Chen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 17;
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                                                                                                                             Σ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             hGDMLP-1; heart;
heart disease;
                                                                                                                               Shannon ME;
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The present invention describes

a human genome-derived myosin-like

Disclosure;

SEQ

IJ

9075;

214pp;

English

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RESULT 174
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
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Best Local
                                                                                   01-JUN-2000;
30-OCT-2000;
27-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             porphyric herbicide resistance; triazine resistance; disease resistance; modified oil production; modified starch production; waxy starch; altered floral morphology; male-sterile plant; albino mutant; modified fatty acid content; reduced palmitate production; albino plant; increased stearate production; reduced linolenic acid production;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Chromosomal genomic alteration; genome altering oligonucleotide; po-methyl modification; LNA modification; phosphorothioate linkage; DNA repair; DNA alteration; environmental tolerance; hygromycin-B; abjotic stress tolerance; improved nutritional value; hygromycin; abjotic stress tolerance; abjotic stress toleran
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N.B. The seque specification,
                                                                                                                                                                                                                                                                                        01-JUN-2001; 2001WO-US17672.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO200192512-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Solanum tuberosum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    photosynthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amino acid over production; herbicide resistance; glyphosate resistance; imidazolinone herbicide resistance;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Waxy starch production genome altering oligonucleotide #95.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABK26439;
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(UYDE ) UNIV DELAWARE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15;
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                                                                                        ; 2000US-208538P.
; 2000US-244989P.
; 2001US-0818875.
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larity 88.2%;
Conservative
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Pred. No. 1.8e+02;
0; Mismatches 2;
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cc phosphorothicate linkages on a terminus, or a combination of any two or combre of these modifications. The oligonucleotides are useful for cc directing repair or alteration of plant genetic information. The cligonucleotides are particularly useful for creating plants with desired phenotypes, e.g. environmental or abiotic stress tolerance, improved contentitional value (e.g. altering amino acid content of plants or conferring amino acid over production), herbicide resistance (e.g. conferring amino acid over production), herbicide resistance (e.g. cc glyphosate resistance, imidazolinone and sulphonylurea herbicide resistance, porphyric herbicide resistance or triazine resistance), cc disease resistance, modified oil production, modified starch production ce.g. increased starch or production of waxy starch), altered floral corphology (e.g. male-sterile plants) or modified fatty acid content (e.g. reduced palmitate, increased steares or reduced linolenic acid). The oligonucleotides are also useful for producing albino mutants for the canalysis of photosynthetic processes. This sequence represents a genome creating oligonucleotide of the invention.
  Matches
                           Query Match
Best Local
                                                                                            Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      respect to the genetic sequence to be altered and further comprises chemical modifications of the oligonucleotide. The chemical modifications
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to an oligonucleotide for targeted alteration genetic sequence, which comprises a single-stranded oligonucleotide having a DNA domain. The DNA domain has at least one mismatch with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New oligonucleotides with modified nuclease-resistant termini, useful for creating plants with desired phenotypes, e.g. stress tolerance, improved nutritional value, herbicide or disease resistance, or modified oil production -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     consist of o-methyl modification, an LNA modification, two or more
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 7; Page 151; 220pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2002-106307/14
1 Similarity
                                                                                            BP; 8
     Conservative
                                                                                               A;
                         88.2%;
                                                                                                 4 C;
                                                                                                 2 G; 3 T;
0;
                         Score 13.8; DB 1;
Pred. No. 1.8e+02;
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RESULT 175 ABK26440/c 밁 S ABK26440 standard; DNA; 17 1485 CAAGAAGCCAGACTTCA 1501 CAAGAAGCTAAACTTCA 17

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Chromosomal genomic alteration; genome altering oligonucleotide; PCR; ss; o-methyl modification; LNA modification; phosphorothioate linkage; DNA repair; DNA alteration; environmental tolerance; hygromycin-B; abiotic stress tolerance; improved nutritional value; hygromycin; primer; amino acid over production; herbicide resistance; glyphosate resistance; imidazolinone herbicide resistance; sulphonylurea herbicide resistance; pophyric herbicide resistance; triazine resistance; modified oil production; modified starch production; waxy starch; altered floral morphology; male-sterile plant; albino mutant; modified fatty acid content; reduced palmitate production; albino plant; Solanum tuberosum increased stearate production; reduced linolenic acid production

Waxy starch 09-APR-2002

(first entry)

production genome altering oligonucleotide #96.

Kmiec

EB,

Gamper HB,

Rice

S S

Kin

06-DEC-2001

WO200192512-A2

Synthetic

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RESULT 176
ABT35370/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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Best Local Similarity
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30-OCT-2000;
27-MAR-2001;
                                                                                  Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 genetic sequence, which comprises a single-stranded oligonuclectide having a DNA domain. The DNA domain has at least one mismatch with respect to the genetic sequence to be altered and further comprises chemical modifications of the oligonuclectide. The chemical modifications
               WO2003025175-A2
                                                                                                                                                                                                              12-JUN-2003
                                                                                                                                                                                                                                                                                   ABT35370 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 7; Page 151; 220pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   modified oil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New oligonucleotides with modified nuclease-resistant termini, useful for creating plants with desired phenotypes, e.g. stress tolerance, improved nutritional value, herbicide or disease resistance, or
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                                                                                                                                                                          suppression
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; 2000US-244989P.
; 2001US-0818875.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                          (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; 2 C; 4 G; 8 T; 0 other;
                                                                                                                                                                          related
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 13.8; DB 1;
Pred. No. 1.8e+02;
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cc sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, c.g. as one component of a gene chip, in vitro as (anti)sense reagents, can for production of recombinant polypeptides. Any of the nucleic acids, collypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell degeneration, specifically cancer but also Alzheimer's disease and schizophrenia. Analysis of the expression of the 17 mer nucleic acids in gatient samples is useful for diagnosis and/or prognosis of these chiseases. The polypeptides can also be used to generate antibodies, and both the polypeptide and antibodies are useful as components of protein chips. The nucleic acid sequences of the invention can be used in gene therapy. This polynucleotide sequences represents a tumour suppression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a
Sequence 17 BP; 6 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 150;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polypeptides, antibodies and transfected cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-SEP-2002; 2002WO-IB04208.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to a novel isolated 17 mer nucleic acid
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4 C; 2 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            720pp; French
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sequence,
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ঠ Matches Query Match Best Local 1848 GAAAGACCTTTCTGATC 1864 15; Similarity Conservative 1.0%; 0; Score 13.8; Pred. No. 1 Mismatches .8e+02; DB 1; Length 17; Indels 0, Gaps

0;

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RESULT 177
ABT39340/c
ID ABT393
                                                    밁
 ABT39340 standard; DNA;
                                                     17
                                                    GAAAGACTTTTGTGATC 1
  17
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Tumour suppression related human fukutin oligo 12-JUN-2003 (first entry) SEQ ID

Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; protein chip; gene therapy; tumour suppression; fukutin; gs.

ö 4977

Homo sapiens

27-MAR-2003

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              consecutive nucleotides from the 17 mer sequence, a sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or the complement of any of them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one component of a gene chip, in vitro as (anti)sense reagents, and for production of recombinant polypeptides. Any of the nucleic acids, polypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell
cervical cancer; head and neck cancer; ovarian cancer; melanoma; lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor; chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate; cyclophosphamide; doxorubin; fluorouracil carboplatin; edatrexate; gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes; rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia; gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis; transplant/graft rejection; reperfusion injury; glomerulonephritis; allergic airway inflammation; inflammatory bowel disease; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        degeneration, specifically cancer but also Alzheimer's disease and schizophrenia. Analysis of the expression of the 17 mer nucleic acids in patient samples is useful for diagnosis and/or prognosis of these diseases. The polypeptides can also be used to generate antibodies, and both the polypeptide and antibodies are useful as components of protein chips. The nucleic acid sequences of the invention can be used in gene therapy. This polynucleotide sequence represents a tumour suppression
                                                                                                                                                                                                      Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme; G-cleaver; amberzyme; cancer; RBL-A activity; breast cancer; human; lung cancer; prostate cancer; colorectal cancer; brain cancer; coesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;
                                                                                                                                                                                                                                                                                                                   NFKB sub-unit modulating amberzyme substrate #207.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACA09044 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          given in the specification,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 615; 720pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       polypeptides, antibodies and transfected cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Telerman
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1898 GGAAACACAAGAATATC 1914
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        invention relates to a novel isolated 17 mer nucleic acid sequence, in the specification, a sequence containing at least 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2003-313353/30
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGAATCACAAGAAGATC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Amson R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          fukutin oligonucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; 4 C; 3 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 13.8; DB Pred. No. 1.8e+(
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ches 2;
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RESULT 179
ABZ64846/c
ID ABZ648
XX
AC ABZ648
XX
DT 21-MAR
XX

ABZ64846;

ABZ64846 standard; RNA; 17

0

21-MAR-2003

(first entry)

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                                                                                                                                                    Matches
                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                   cancer and is useful for down-regulating REI-A activity in a cell, for treating a patient having a condition associated with the level of REI-A. (I) is useful for cleaving RNA comprising a sequence of REI-A gene, in the presence of a divalent cation, especially Mg^2+. The enzymatic and antisense nucleic acid molecules are useful for treating breast, lung, prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic, cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or multidrug resistant cancer. The method involves use of other drug therapies such as monoclonal antibodies, REI-A-specific inhibitors or chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate, cyclophosphamide, doxorubin, fluorouracil carboplatin, methotrexate, gemcitabine or radiation therapy. The enzymatic and antisense nucleic acid molecules are also useful for treating inflammatory disease such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-AUG-1994;
07-DEC-1992;
18-MAY-1994;
23-DEC-1996;
                                                                                                                                                                                                                        rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes, obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft rejection, gene therapy applications, ischaemia/reperfusion injury (central nervous system (CNS) and myocardial), glomerulonephritis, sepsis, allergic airway inflammation, inflammatory bowel disease or sepsis, allergic airway inflammation, inflammatory bowel disease or
                                                                                                                                                    Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention describes an enzymatic nucleic acid molecule (I) which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme configuration. The enzymatic nucleic acid molecule is adapted to treat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel enzymatic nucleic acid molecules which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B useful for treating cancer, inflammatory disorders and autoimmune diseases
                                                                                                                                                                                        infection. This sequence represents the substrate enzymatic nucleic acid molecule.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 3; Page 55; 72pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-NOV-2002.
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                                                                         Local Similarity hes 15; Conserv
                                     2004 AGCCCGGAGGCCACCCG
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DRAPER K G
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 AGCCCAGAGGCCCCCCG
                                                                                                                                                    BP; 3 A; 9 C; 5 G; 0 U; 0 other;
                                                                           Conservative
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94US-0245466.
96US-0777916.
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                                                                                           1.0%;
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                                     2020
                                                                         0,
                                                                                           Score 13.8;
Pred. No. 1.
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                                                                           Mismatches
                                                                                           1.8e+02;
                                                                                                                 DB 1;
                                                                                                               Length 17;
                                                                           Indels
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Human HER2 DNAzyme substrate #303

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RESULT 180
ABZ65209
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-R human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ59889 - ABZ65216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66530 - ABZ66530 - ABZ66531, ABZ64544 - ABZ65531, sequences for the human ribozymes of the invention.
                                                                                       Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
anti-rheumatic; cancer; AIDS; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-MAY-2001; 2001US-294140P.
06-JUN-2001; 2001US-296249P.
10-SEP-2001; 2001US-318471P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
anti-rheumatic; cancer; AIDS; ss.
05-DEC-2002.
                             WO200297114-A2
                                                          Homo sapiens.
                                                                                                                                                       Human HER2 DNAzyme
                                                                                                                                                                                      21-MAR-2003
                                                                                                                                                                                                                                                  ABZ65209 standard; RNA; 17 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 17 BP; 5 A; 3 C; 6 G; 3 U; 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 4; Page 138; 185pp; English.
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                                                                                                                                                                                                                                                                                                                             TCTTCTTGCAGCCAGCA 1
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                                                                                                                                                       substrate #666.
                                                                                                                                                                                                                                                                                                                                                                                                        1.0%;
                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                         Score 13.8; DB 1;
Pred. No. 1.8e+02;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                        Length 17;
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RESULT 181
AAQ49011
ID AAQ490
  AC XXX DE XXX DE
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06-JUN-2001;
10-SEP-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras, human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cycostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ5989 - ABZ6216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524, ABZ66530 - ABZ66535 represent substrate/target sequences for the human ribozymes of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   SBP; specific binding pair members; antibody; RGDP; replicable genetic display package; recombination; PCR. polymerase chain reaction; ss.
Griffiths AD,
                                                                                                                                          24-MAR-1992;
15-MAY-1992;
                                                                                                                                                                                                                               24-MAR-1993;
                                                                                                                                                                                                                                                                                    30-SEP-1993
                                                                                                                                                                                                                                                                                                                                            WO9319172-A1
                                                                                                                                                                                                                                                                                                                                                                                              Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Multimeric (SBP) antibody chain primer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 17 BP; 4 A; 5 C; 5 G; 3 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 4; Page 145; 185pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-140484/13
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                                                       (CAMB-) CAMBRIDGE ANTIBODY TECHNOLOGY. (MEDI-) MEDICAL RES COUNCIL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22-APR-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-MAY-2002;
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; 2001US-296249P.
; 2001US-318471P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (updated)
(first entry)
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Johnson KS,
                                                                                                                                          92GB-0006318.
92WO-GB00883.
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Smith AJH,
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Pred. No. 1.8e+02;
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                                    The sequences given in AAT05636-39 are primers which were used in the construction of a mutated factor VIII molecule. The amplified cDNA encodes a molecule in which Arg 562 is substituted for Ile. This mutation occurs in the cleavage site for activated protein C (APC) which confers resistace to APC cleavage. The novel factor VIII based protein can be used for the treatment of disorders in the blood coagulation
                                                                                                                                                                     Activated detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and lambda-chain genes of various antibodies. These genes are then recombined into the same replicon, resulting in very diverse libraries of antibody chains, e.g. from unimmunised donors. It is also useful for chain shuffling, mutagenesis, humanising and CDR imprinting. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                          Primer; amplify; polymerase chain reaction; PCR; diagnosis; intron substitution; factor V; activated protein C; APC; cleavage site; resistance; thrombo-embolic disease; coagulation cascade; ss.
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Sequence 18
                                                                                                                                                                                                                 WPI; 1995-383004/49
                                                                                                                                                                                                                                                                                                   22-APR-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        primers (AAQ48987-Q49045) are used in the amplification of Kappa lambda-chain genes of various antibodies. These genes are then {\sf L}
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                                                                                                                                                                   protein C resistant mutant factors \boldsymbol{V} or \boldsymbol{VIII} - useful for and treating disorders in the blood coagulation cascade
                                                                                                                                         Page 23; 48pp; English.
 BP;
                                                                                                                                                                                                                                          Van Mourik JA,
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L.9e+02;
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Matches
                                                                    some or all of the following elements: purification tag:proteinase site:ECM binding site:proteinase site:TGF-beta. TGF-beta promotes wound healing, and the fusion protein can be used to reduce surgery recovery time and in the preparation of arcificial skin. The inclusion of a purification tag facilitates purification of the fusion protein. The proteinase site is included to permit cleavage and release of the purification tag after purification if desired. The extracellular matrix binding site facilitates delivery of the fusion protein to the desired site of action. Delivery of the TGF-beta to the site to be treated reduces the amount of TGF-beta required to be administered to be effective and reduces the concentration of circulating TGF-beta which may result in undesirable effects.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A novel transforming growth factor-beta (TGF-beta) fusion protein comprises a purification tag and a TGF active fragment. The present sequence encodes a specifically claimed purification tag.

Additionally, the fusion protein may comprise proteinase-sensitive highest sites and binding domain so the protein sequence may contain t
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Pred. No. 1.9e+02;
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                                                                                                                                                                                                                                                                         ErbB-2 gene. Of these, only oligonucleotides AAV48799-91 resulted

Cin significant redcution in ErbB-2 protein expression, while

coligonucleotides AAV48792-866 had little effect. The oligonucleotides

coligonucleotides AAV48792-866 had little effect. The oligonucleotides

coligonucleotides and the specification describes oligonucleotides

chat contain 8-30 nucleotides, which contain at most 8 nucleotides that

can each form three hydrogen bonds to cytosine; do not contain four

consecutive nucleotides able to form three H-bonds each to four

consecutive cytosines; do not contain two sequences of three consecutive

curleotides each able to form three H-bonds to three consecutive

curleotides and the ratio between residues able to form two H-bonds each

coligonucleotides are used to modulate expression of genes, particularly

the genes for p53, ErB-2, jumB, jumD, TGF-beta 1 or beta 2 to control

proliferation of primary cell cultures (FB-beta 1 or beta 2 to control

coligonucleotides are used to modulate expression of genes, particularly

coligonucleotides are used to modulate expression of genes, particularly

coligonucleotides are used to modulate expression of genes, particularly

coligonucleotides are used to modulate expression of genes, particularly

coligonucleotides are used to modulate expression of genes, particularly

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coligonucleotides are used to modulate expression of genes particularly

coligonucleotides are used to modu
                                                 Matches
                                                                         Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                     kidney cells, osteoclasts, osteoblasts and or keratinocytes). The oligonucleotides can also be used to analyse function of proteins (by altering their expression or activity) and therapeutically, e.g. in cases of cancer or (targeting TGF) for stimulating the immune system.
                                                                                                                                              Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Preparation of antisense oligo:nucleotide(s) which lack long runs of consecutive guanosine or inosine - and have specific ratio of residues able to form two or three hydrogen bonds, have greater activity and reduced toxicity, used therapeutically or to modulate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAV48709-886
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1998-400910/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Brysch W,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31-JAN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-AUG-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EP856579-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ErbB-2; antisense oligonucleotide; modulate; gene expression; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ErbB-2 gene antisense oligonucleotide ErbB-2-38.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAV48746;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAV48746 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (BIOG-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local
  2317 CATCAGAGTGATGTCTG 2333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1879 GAGATGATGAAGATGAT 1895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sapiens.
                                              al Similarity
15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              09-886 represent antisense oligonucleotides directed against the
gene. Of these, only oligonucleotides AAV48709-91 resulted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BIOGNOSTIK GES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTGATGATGATGAT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fig 6a; 286pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cells in culture
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Schlingensiepen K;
                                                                                                                                         BP; 4 A; 6 C; 4 G; 4 T; 0 other;
                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     97EP-0101531.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   97EP-0101531
                                                                  1.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 88.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BIOMOLEKULARE DIAGNOSTIK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ВP
                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                    Score 13.8; DB
Pred. No. 1.9e+(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 13.8; DB 1;
Pred. No. 1.9e+02;
                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                            8; DB 1;
1.9e+02;
ches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         _
                                                                                        Length 18;
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                                              Indels
                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                         Gaps
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                                              0
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RESULT 186
AAV99371/c
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                                                                                                                                                                                                                                                                                     RESULT 185
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                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                 Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                   The invention relates to new influenza antigens that comprise a fusion product of at least the extracellular part of a conserved influenza membrane protein (or a functional fragment) and a presenting carrier. The membrane protein consists of the extracellular part of the influenza M2 protein. The influenza antigens can be used in the preparation of a vaccine against influenza for humans and animals, e.g. pigs and horses. The vaccines can be direct vaccines, e.g. vaccines containing the fusion
                                                      cDNA encoding
                                                                                                      AAV99371;
                                                                                                                              AAV99371 standard; cDNA; 18
                                                                                                                                                                                                                                                                                                        products or indirect,
                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Fig 29; 100pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    New influenza antigens for use in product of the extracellular part
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <u>X</u>
           active
                                Proteinase site; bone morphogenetic fusion protein; bone binding site;
                                                                                25-MAR-1999
                                                                                                                                                                                                                                                                                   Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                         protein and a presenting carrier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1999-167418/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fiers W,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              05-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RT-PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAX27574;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAX27574 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (VLAA-) VLAAMS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-FEB-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Influenza antigen; fusion product; extracellular; membrane protein;
M2 protein; vaccine; human; animal; pig; horse; RT-PCR; primer; ss.
                                                                                                                                                                                                              1821 GAAGATGTTGAAAGATG 1837
                      morphogenetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17
           fragment;
                                                                                                                                                                                        N
                                                                                                                                                                                                                                      15;
                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                        GTAGATATTGAAAGATG 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CACCAGAGTGATGTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Min Jou W,
                                                                                                                                                                                                                                                                                   BP; 7 A;
                                                                                                                                                                                                                                      Conservative
                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                       a peptide comprising a purification tag.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RT-NTRNA7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INTERUNIVERSITAIR INST BIOTECHNOG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              97EP-0202434.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98WO-EP05106
         wound healing;
                      protein;
                                                                                                                                                                                                                                               1.0%;
                                                                                                                                                                                                                                                                                   0 C; 6 G; 5 T;
                                                                                                                                                                                                                                                                                                           DNA vaccines.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Neirynck S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ВP
                                                                                                                              ВÞ
                                                                                                                                                                                                                                    ٥,
                   transforming
                                                                                                                                                                                                                                    Score 13.8; DB 1;
Pred. No. 1.9e+02;
0; Mismatches 2;
           bone
                                                                                                                                                                                                                                                                                                                                                                                                                                                       윥
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  vaccines
                                                                                                                                                                                                                                                                                   0 other;
         ming growth growth; pur
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                       conserved
           purification tag; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     comprising a
/ed influenza
                      factor
                                                                                                                                                                                                                                                           Length 18;
                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                     fusion membrane
                                                                                                                                                                                                                                    ٥,
                                                                                                                                                                                                                                      Gaps
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SXCCCCCCCCXXXPTTTHXX
RESULT 187
AAA52031/c
ID AAA52031 standard; cDNA; 18
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                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence encodes a peptide comprising a purification tag that was used in the creation of the bone morphogenetic fusion proteins of the invention. The bone morphogenetic fusion protein may contain some or all of the following elements: a purification tag, a proteinase site, an ECM/bone binding site, a second proteinase site, and a bone morphogenetic protein active fragment. The fusion proteins of the invention also includes proteins that have transforming growth factor beta active fragments instead of bone morphogenetic protein active
                    protein trafficking; cell surviva. DNA synthesis; apoptosis; neurite glucose transport; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-059875/05.
                                                         Phosphatidylinositol 3-kinase; PI3K; p85; p110; heterodimer; hormone; growth factor; receptor; antisense; inhibition; expression; diagnosis; modulation; growth factor mediated cell transformation; mitogenesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CDS
                                                                                                                         Antisense
                                                                                                                                                 19-DEC-2000
                                                                                                                                                                                                                                                                                                                                                                Sequence 18 BP; 6
                                                                                                                                                                                                                                                                                                                                                                                                  fragments. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 37; 64pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      wound healing or bone growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New bone morphogenetic fusion tag and a bone morphogenetic a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hall FL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (HANB/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              03-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         02-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10-DEC-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9855137-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (WULL/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (HALL/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (SHOR/)
                                                                                                                                                                                                                                                                                      1879 GAGATGATGAAGATGAT 1895
                                                                                                                                                                                                                                                               18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NIMNI M E.
SHORS E C.
WU L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HALL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAW84203.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HAN B.
                                                                                                                                                                                                                                                               GTGATGATGATGAT 2
                                                                                                                                                                                                                                                                                                                                                                                      . The bone morphogenetic fusion proteins can be used for wound healing or bone growth.
                                                                                                                        oligonucleotide directed against
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Han B,
                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FL.
                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                97US-0868452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98WO-US11189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nimni ME,
                                                                                                                                                                                                                                                                                                                                                                A; 7 C; 0 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                           1.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "encodes a purification tag"
                                survival; cell proliferation;
neurite outgrowth; insulin-st
                                                                                                                                                                                                   ВP
                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                              Score 13.8; DB 1;
Pred. No. 1.9e+02;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Shors EC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a proteins - comprising a purification active fragment, used for enhancing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              £
                                                                                                                        PI3K p85 subunit.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ŗ
                                   insulin-stimulated
                                                                                                                                                                                                                                                                                                               2
                                                                                                                                                                                                                                                                                                                                      Length 18;
                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                              ٥.
                                                                                                                                                                                                                                                                                                               Gaps
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RESULT 188
AAA48791/c
ID AAA48791/c
AC AAA487
AC AAA487
XX O8-SEP
XX Uman
XX Human;
XW Human;
XW Cancer
XX Homo s
XX Homo s
XX Homo s
                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                       S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC and oncogene products. PI3Ks act as downstream effectors of these CC receptors, are recruited upon receptor stimulation and mediate the CC activation of second messenger signaling pathways. The PI3 kinase CC enzyme consists of a 110kD catalytic subunit (p10) associated with CC an 85kD regulatory subunit (p85) and it is through the SH2 domains CC of the p85 subunit that the enzyme associates with the membrane CC bound receptors. PI3Ks have been implicated in many cellular CC activities including growth factor mediated cell transformation, CC mitogenesis, protein trafficking, cell survival and proliferation, CC mitogenesis, protein trafficking, cell survival and proliferation, CC mitogenesis, apoptosis, neurite outgrowth and insulin-stimulated CC glucose transport. Antisense compounds directed against PI3K p85 and CC which inhibit its expression are useful as diagnostics and research CC reagents, and as a component of kits, which can be used for detecting CC reagents, and as a component of kits, which can be used for detecting CC the level of pI3K p85 in a sample. The compounds may be administered to be treated by modulating the expression of PI3K p85. The compounds may CC further be useful prophylactically, e.g., to prevent or delay CC this antisense molecule is nucleotide 1674 of the coding region of CC the pI3K p85 subunit (See GENESEQ record AAA52007).
                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local
                                                                          Human; G-alpha-16; G protein; cytostatic; hyperproliferative disorder; cancer; inflammation; infection; antisense inhibition; ss.
                                                                                                                                     Human G-alpha-16 antisense oligonucleotide ISIS# 20848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 18 BP; 4 A; 5 C; 1 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antisense compounds targeted to the coding region of human phosphatidylinositol 3-kinase (pI3K) p85 and inhibiting pI3K p85 expression, useful for treating disorders associated with pI3K p85
                                                                                                                                                                             08-SEP-2000
                                                                                                                                                                                                                                                      AAA48791 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            with the cytoplasmic domain of hormone and growth factor receptors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The phosphatidylinositol 3-kinases (PI3Ks) family of heterodimeric lipid kinases that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       08-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US6100090-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                         2530 TTGGTAGAAGACTTGGA 2546
                                                                                                                                                                                                                                                                                                                                                     17
                                                                                                                                                                                                                                                                                                                                                                                                                               15; Conserv
                                                                                                                                                                                                                                                                                                                                                     TTGGAAGAAGACTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cowsert LM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Column 39; 32pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99US-0344521.
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                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                               1.0%;
88.2%;
                                                                                                                                                                                                                                                      18
                                                                                                                                                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 13.8; DB 1;
Pred. No. 1.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              represent a ubiquitous are found in association
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                               0,
                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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WO200032817-A1

Homo sapiens.

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RESULT 189
AAA23501
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
24-AUG-1998;
24-AUG-1998;
09-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence is an antisense oligonucleotide used to modulate expression of G-alpha-16. G-alpha-16 is a human G protein whice interacts differentially with several receptor types including members of the opicid and chemokine receptor families. A series of antisense oligonucleotides have been designed to target different regions of the human G-alpha-16 RNA. They may be used to inhibit the expression of G-alpha-16 in human cells and tissues and thus to treat diseases associated with G-alpha-16, such as hyperproliferative disorders, especially cancer. Infections, inflammation or tumour formation can
                                                                                                                                                                                       Human; secreted protein; cancer; tumour; cardiovascular disorder; blood disorder; haemophilia; autoimmune disease; diabetes; inflammation; infection; fungal; bacterial; viral; HIV; allergy; arthritis; neurodegenerative disease; asthma; contraceptive; hybridisation probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Note: The sequence has a phosphorothicate backbone and may be either an oligodeoxynucleotide or a chimeric oligonucleotide containing 2'-methoxyethyl (2'-MOE) wings and a deoxy gap. The ISIS number given above corresponds to the oligodeoxynucleotide sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A new antisense compound for inhibiting the expression of human G-alpha-16 and treating, preventing or delaying infections, inflammation or hyperproliferative disorders such as cancer -
                                                                                         02-MAR-2000.
                                                                                                                     WO200011015-A1
                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                Clone vq1_1 hybridisation probe,
                                                                                                                                                                                                                                                                                                  19-JUN-2000
                                                                                                                                                                                                                                                                                                                               AAA23501;
                                                                                                                                                                                                                                                                                                                                                         AAA23501 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 18 BP; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           be prevented or delayed. The compounds can be used in research and diagnostics in sandwich and other assays.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 3; Page 73; 100pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-JUN-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               1354 CCAGCGCCTGGAAGAGA 1370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000-412354/35
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PHARM INC
98US-0097638.
98US-0097659.
98US-0099618.
                                                          99WO-US19351.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98US-0205143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99WO-US19613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; 7 C; 4 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.0%;
                                                                                                                                                                                                                                                                                                                                                           ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 13.8; DB Pred. No. 1.9e+(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                    SEQ ID NO:119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      . 1.9e+02;
2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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RESULT 190 AAZ59167/c

AAZ59167

standard; DNA; 18

片 5

 $\vdash$ 

CAGACATGAGCAGCCAG

Matches Query Match Best Local

1493

CAGACTTCAGCAGCCAG

1509 17

Local Similarity les 15; Conserv

Conservative

0;

Mismatches

1.9e+02; DB

1

Length 18; Indels

0

Gaps

0

1.0%; 5 C; 6

Sequence 18

BP; 6

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G; 1 T; 0 other; Score 13.8; Pred. No. 1.

X PLX S X X X X X D X P X A X X I I

Fusion protein; Bacillus; cell wall protein;

promoter; cleavage site;

PCR primer;

88.

Hexa(his) oligonucleotide for MWPsp-MWPmp10-(His)6-linker-Met-ProIns.

(first entry)

JP11341991-A

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vaccines, and the nucleotides may be used as part of a gene therapy regime. Diseases or conditions that may be treated using the proteins or nucleotides of the invention include autoimmune diseases; genetic disorders; haemophilia; cardiovascular diseases; cancer; bacterial, fungal and viral infections, especially HIV; multiple sclerosis; rheumatoid arthritis; pulmonary inflammation; Guillain-Barre syndrome; insulin dependent diabetes mellitus; and allergic reactions such as asthma and annaemia. They may also be used for treating wounds, burns, ulcers, osteoporosis, osteoarthritis, periodontal diseases, Albineimer's disease, Parkinson's disease, Huntington's disease and amyotrophic lateral sclerosis (ALS). Proteins with activin/inhibin activity may additionally be useful as contractives.
                                                                                                                                                                                                                                                                                                                                                                        partially secreted, i.e., transmembrane proteins. The proteins of the invention may exhibit one or more activities selected from the following cytokine activity, cell proliferation; differentiation; immune modulation; haematopoiesis regulation; tissue growth activity; haemostatic activin/inhibin activity; chemotactic/chemokinetic activity; haemostatic and thrombolytic activity; anti-inflammatory activity; and tumour inhibition activity. The proteins may be administered to patients as vaccines, and the nucleotides may be used as narr of a concentration as activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-NOV-1998;
23-DEC-1998;
23-DEC-1998;
23-AUG-1999;
                                                            additionally be useful as contraceptives. Nucleic acid sequences of the invention may be used in chromosome mapping, and as a source of diagnostic primers and probes. Sequences AAA23463-A23502 represent hybridisation probes which may be used to isolate the cDNA clones of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to 40 human secreted proteins (AAY9498 and cDNA sequences encoding them (AAAZ3423-A23462). The secreteins of the invention include those that are thought to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 345;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New secreted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-224657/19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Valenzuela D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (ALPH-) ALPHAGENE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   or transmembrane proteins and polynucleotides encoding for treating neurodegenerative disorders, autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        relates to 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        98US-0102092.
98US-0109978.
98US-0113645.
98US-0113646.
99US-0379246.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    357pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hoffman
                                                                 may be used to isolate the cDNA clones of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ħ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hall J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rapiejko
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (AAY94981-Y95020),
The secreted
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RESULT 191
AAZ59168
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                           14-DEC-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       represents an oligonucleotide coding for the (His)6 part of the construct MWPsp-MWPmp10-(His)6-Linker-Met-ProInsulin. This construct comprises the Bacillus brevis middle wall protein mp10 linked to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a DNA construct encoding a fusion protein comprising a Bacillus species cell wall protein fused to a cleavage peptide and a heterologous protein. The fusion construct is placed downstream of a Bacillus species promoter sequence. This sequence
                  Example 1; Page 8; 43pp; Japanese
                                                                     A DNA coding through its e
                                                                                                                                              WPI; 2000-101697/09
                                                                                                                                                                                               Sato S,
                                                                                                                                                                                                                                                                                                                         31-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                          30-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JP11341991-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TEV protease; PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fusion protein; Bacillus; cell wall protein; promoter; cleavage site;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hexa(his) oligonucleotide for MWPsp-MWPmp10-(His)6-linker-Met-ProIns.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-APR-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAZ59168;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 18 BP; 6 A; 7 C; 0 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             proinsulin protein via a cleavable linker sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 1; Page 8; 43pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          through its expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A DNA coding a new fused protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2000-101697/09
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31-MAR-1998;
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                                                                                                                                                                                                                                                (UDAK/)
                                                                                                                                                                                                                                                                             (ITOH-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ITOH-)
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                                                                   oding a new fused protein its expression -
                                                                                                                                                                                                                                                ITOHAM FOODS INCUDAKA S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ITOHAM FOODS INC
                                                                                                                                                                                               Higashikuni N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Higashikuni N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTGATGATGATGAT 2
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                                                                                                                                                                                                                                                                                                                         98JP-0087339
                                                                                                                                                                                                                                                                                                                                                                          99JP-0089488
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                                                                                                                                                                                                  Kudo
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Pred. No. 1.9e+02;
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                                                                                             and preparation of a useful peptide
                                                                                                                                                                                                  Kondo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Kondo
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                                                                                                                                                                                               Ξ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 192
AAZ59072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
         RNA complex in presence of the test compound and comparing the result with a standard. The oligonuclectides AAZ59070-Z59071 anneal to form a double stranded oligonuclectide containing the HIV-1 trans-activation regulatory region (TAR) to which the HIV-1 Tat protein binds. The complex is labelled with 6-carboxyfluorescein and is used as a target for the binding of a labelled ADP-1 protein. Detection of the complex is by fluorescence resonance energy transfer (FRET). The method is used to identify compounds that interfere with interaction between the target RNA and ligands or proteins. Compounds that are identified are potentially useful for treating infections (viral, bacterial or fungal), cancer and autoimmune diseases. The compounds are preferably directed to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a DNA construct encoding a fusion protein comprising a Bacillus species cell wall protein fused to a cleavage peptide and a heterologous protein. The fusion construct is placed downstream of a Bacillus species promoter sequence. This sequence represents a reverse oligonuclectide coding for the (His) 6 part of the construct MMPsp.MMPmp10-(His)6-linker-Met-ProInsulin. This construct comprises the Bacillus brevis middle wall protein mp10 linked to the proinsulin protein via a cleavable linker sequence.
                                                                                                                                                                                                                      The invention relates to a method of determining if a compound binds to a target RNA by treating a test compound with a reporter (R) labelled with a donor or acceptor group and labelled target RNA, labelled with the complementary donor or acceptor group, and measuring the fluorescence from fluorescent groups associated with a compound:target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         autoimmune disease; trans-activation regulatory region; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-JUN-1998;
02-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human immunodeficiency virus type 1..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HIV-1 TAR oligonucleotide target sequence
                                                                                                                                                                                                                                                                                                                                          Examples; Page 31; 82pp; English.
                                                                                                                                                                                                                                                                                                                                                                             Identifying compounds that bind to target RNA, potentially useful treating infections, tumors and autoimmune diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2000-097545/08.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antiviral; antibacterial; antifungal; anticancer; detection; TAR; RRE; fluorescence resonance energy transfer; tat; HIV-1; Rev response eleme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAZ59072 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (RIBO-) RIBOTARGETS LTD
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99GB-0004790.
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Pred. No. 1.
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1.9e+02;
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RESULT 193
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Best Local S
Matches 15
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Best Local 9
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                                                                                                                                                                                                                                                     This invention describes novel antisense oligonucleotides (I) capable of inhibiting expression of human EGR-1 (early growth response-1). The products of the invention have anti-inflammatory, cytostatic and antiviral activity. (I) was tested for its effects on EGR-1 mRNA levels by real-time polymerase chain reaction (PCR), results indicated that 60% inhibition was achieved. When (I) was modified by 2'-O-methoxyethyl substitution of the first 4 and last 4 residues, and by replacing any C in these flanking regions with 5-methyl-C, the degree of inhibition was increased to 71%. (I) is used to inhibit expression of EGR-1 in cells and tissues in vitro, for research or diagnosis, e.g. detecting EGR-1 encoding nucleic acid. (I) may also be used to treat or prevent and the control of the diseases, particularly vital infections, inflammation and treat and allowed to treat or prevent and t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antisense oligonucleotides that inhibit expression of human early growth response-1, useful for diagnosis, treatment and prevention tumors, inflammation and infection -
                                                                                                                                                                         Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EGR-1; early growth response 1; antisense; inhibition; human; primer; anti-inflammatory; cytostatic; antiviral; detection; diagnosis; viral infection; inflammation; tumor; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human EGR-1 DNA antisense primer #24161.
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                                                                                                                                                                                                                     human
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                                         1924 CTTGGAGCCTGCACACA 1940
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                                                                                                         Similarity
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  CCTGGAGCCTGCACCCA
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                                                                                                                                                                                                                     EGR-1 protein.
                                                                                                                                                                         BP; 2
                                                                                                                                                                                                                                   AAZ44124-Z44169 represent antisense
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                                                                                    Conservative
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                                                                                                                                                                         A; 4 C; 9
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                                                                                  Score 13.8; DB 1;
Pred. No. 1.9e+02;
0; Mismatches 2;
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Pred. No. 1.9e+02;
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                                                                                                                         Length 18;
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RESULT_194
AAZ36560
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Best Local
                                                                                                                                                                         uses sets of peptide nucleic acid (PNA) probes in hybridisation reactions. The method comprises using at least 2 sets of hybridisation probes, where at least one set comprises one or more PNA probes capable of hybridising to specific nucleic acid sequences related to a potential aberration in a chromosome. The methods can be used for the detection of chromosome aberrations. They can be used for the diagnosis of disorders and diseases related to chromosomal aberrations or abnormalities such as e.g. haemapoletic malignancies, cancers and inborn constituel diseases. The method may be used for detecting viral sequences and their localization in the chromosome. In plant biology, the methods can be used for monitoring the efficiency of transferring herbicide resistance
                                                                                                                                                                                                                                                                                                                                                                 AAZ36520-41 (set 1) and AAZ36542-61 (set 2) represent two sets of probes which flank each site of the major breakpoint region (mbr) of the MLL-1 gene. The MLL gene is associated with acute lymphoblastic leukaemia-1 (ALL-1). The probes are selected from the lower strand of the MLL-1 gene, and so hybridise to the upper strand. The probes are used to demonstrate the method of the invention. The specification describes a method for the detection of chromosome aberrations in eukaryotic samples
                                                                                                                                Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Detection of chromosome aberrations, used for detecting diseases and disorders, infections, and plant alterations related to e.g. herbicide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 40; 63pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2000-038821/03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         acute lymphoblastic leukaemia-1; ALL-1; probe; peptide nucleic haemapoietic malignancy; cancer; inborn constituel disease; herbicide resistance gene; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       resistance
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                               2351 TGTGGGAGATCTTCACT
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15; Conser
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                                                                                                                                                                 a plant.
 TGTGGGAGATGTTGACT
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                                                                             1.0%;
                                                                                                                                2 C; 7
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                                                                               Score 13.8; DB 1;
Pred. No. 1.9e+02;
                                                                   Mismatches
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RESULT 195 AAF74454

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ARESULT 196
AAF74457/C
ID AAF744
XX AAF744
AC AAF744
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DT 09-MAY
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                               medicament for treating a syndrome associated with a PROX-associated disorder, e.g. a cell proliferation and/or differentiation disorder (e.g. cancer or immune associated disorders) and a gestational disease (e.g. pre-clampsia). They are also used for screening for a modulator of activity or of latency or predisposition to a PROX-associated disorder. AAF74432 to AAF74448 encode the specifically claimed human PROX polypeptides PRO1 to PRO17 given in AAB70531 to AAB70547. The present sequence represents a primer used in an example from the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention describes isolated nucleic acids encoding secreted polypeptides, designated PROX polypeptides (i.e. a PRO polypeptide where X is an integer from 1 to 17). Polypeptides have cytostatic, immunomodulatory and reproduction activities, and can be used in gene therapy, and as PROX antagonists and PROX agonists. PROX polypeptides, nucleic acids and antibodies are useful in the manufacture of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic acids encoding secreted polypeptides, designated PROX polypeptides, useful for treating a syndrome associated with PROX-associated disorder, e.g. cancer -
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10-AUG-2000; 2000US-0148433.
                Human PRO2 gene-specific sequencing primer
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                                                 09-MAY-2001
                                                                                                             AAF74457 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                        Sequence 18 BP; 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCR primer; sequencing primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAF74454 standard; DNA; 18 BP
                                                                                                                                                                                                                           1481 CGACCAAGAAGCCAGAC 1497
                                                                                                                                                                                                                                                          15;
                                                                                                                                                                                             N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2; Page 119; 166pp;
                                                                                                                                                                                             CTACCAAGAAGCCAGCC 18
                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fernandes E;
                                                                                                                                                                                                                                                                                                                        A; 8 C; 3 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                      1.0%;
                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                        Score 13.8; D
Pred. No. 1.9e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             English.
                                                                                                                                                                                                                                                                    8; DB 1;
1.9e+02;
                  SEQ ID NO:43.
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                                                                                                                                                                                                                                                          <u>ب</u>
                                                                                                                                                                                                                                                                                        Length 18;
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RESULT 197
AAF56051
ID AAF560
XX AAF560
XX AAF560
XX IB-APR
XX IBV DN
XX IBV DN
XX IBV HBV; h
KW HBV; h
KW mutati
XX IBV
OS Hepati
XX IBV
PD 18-JAN
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention describes isolated nucleic acids encoding secreted polypeptides, designated PROX polypeptides (i.e. a PRO polypeptide where X is an integer from 1 to 17). PROX polypeptides have cytostatic, immunomodulatory and reproduction activities, and can be used in gene therapy, and as PROX antagonists and PROX agonists. PROX polypeptides, nucleic acids and antibodies are useful in the manufacture of a medicament for treating a syndrome associated with a PROX-associated disorder, e.g. a cell proliferation and/or differentiational disease (e.g. cancer or immune associated disorders) and a gestational disease (e.g. pre-clampsia). They are also used for screening for a modulator of activity or of latency or predisposition to a PROX-associated disorder. AAF74432 to AAF74448 encode the specifically claimed human PROX polypeptides PRO1 to PRO17 given in AAB70531 to AAB70547. The present requence represents a primer used in an example from the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nucleic acids encoding secreted polypeptides, designated polypeptides, useful for treating a syndrome associated \nu PROX-associated disorder, e.g. cancer -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; PRO; PROX; cytostatic; immunomodulatory; reproduction; gene therapy; cell proliferation; differentiation disorder; cal immune associated disorder; gestational disease; pre-clampsia; PCR primer; sequencing primer; ss.
                                                                                                                                                     HBV; hepatitis B virus; DNA polymerase mutation detection; probe; ss.
                                                                                                                                                                                                                          HBV DNA polymerase gene M552V/I mutation probe HBPr463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 18
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10-AUG-2000; 2000US-0148433.
                                                      WO200104358-A2
                                                                                                    Hepatitis B virus
                                                                                                                                                                                                                                                                              18-APR-2001
                                                                                                                                                                                                                                                                                                                               AAF56051;
                                                                                                                                                                                                                                                                                                                                                                                AAF56051 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 2; Page 119; 166pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1481 CGACCAAGAAGCCAGAC 1497
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      l Similarity
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                                                                                                                                                                                                                                                                              (first entry)
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Pred. No. 1.9e+02;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0 other;
                                                                                                                                                                            gene; anti-HBV drug
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                 resistance;
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18-JAN-2001

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AAD40986/c
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; antisense; PI3K p85; obesity; type 2 diabetes; cancer; tumour; prophylaxis; hyperproliferative condition; infection; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Monitoring anti-HBV drug resistance by genetic detection of mutations in DNA polymerase of HBV in patient's sample, involves hybridizing the polynucleic acids of the sample with a probe and detecting the hybrid
                  modified_base
                                                                                        modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             therapy; phosphorothicate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human PI3K p85
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAD40986;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-138370/14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 08-JUL-1999;
13-JUL-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2267 TTCCAGTCAAGTGGATG 2283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15;
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99US-0143546
                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                     /note= "Phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                                            /*tag= a
/mod_base= OTHER
                                    mod_base=
                                                                   *tag=
                                                                                                                     note=
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                                                                                                                                                                                                             _base= OTHER
e= "2'-methoxyethyl nucleotides"
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                                                                                                                                               base=
                                                                                                                     "2'-methoxyethyl nucleotides"
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Pred. No. 1.9e+(
); Mismatches
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1.9e+02;
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RESULT 199
ABL30659/c
ID ABL306
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to antisense compounds targetted to a nucleic acid molecule encoding PI3K p85 to inhibits its expression. Antisense compounds of the invention are used for treating obesity. Type 2 diabetes and hyperproliferative condition e.g. cancer. They may also be useful prophylactically, e.g. to prevent or delay infection, inflammation or tumour formation. Antisense compounds either alone or in combination with other antisense compounds or therapeutics can be used as tools in differential and/or combinatorial analyses to elucidate
           Inoko H,
                                                                            01-JUN-2000; 2000JP-0164798
                                                                                                    01-JUN-2001; 2001WO-JP04662.
                                                                                                                                 06-DEC-2001.
                                                                                                                                                          WO200192572-A1.
                                                                                                                                                                                                           Human; human leukocyte antigen; HLA; genotype; polymorphism; immunogenetic; transplantation; genetic disease; ss.
                                                                                                                                                                                                                                                 Human HLA genotyping oligonucleotide
                                                                                                                                                                                                                                                                              21-MAR-2002
                                                                                                                                                                                                                                                                                                       ABL30659;
                                                                                                                                                                                                                                                                                                                                ABL30659 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 18 BP; 4 A; 5 C; 1 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oligonucleotide targetted to human PI3K p85 DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            expression patterns of a portion or the entire complement of genes expressed within cells and tissues. They are commonly used as research
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Antisense compounds targeted against polynucleotides encoding PI3K p85 useful for treating e.g. cancer, Type 2 diabetes, obesity -
                                                                                                                                                                                   Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  reagents and diagnostics.
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                                                                                                                                                                                                                                                                                                                                                                                                                      2530 TTGGTAGAAGACTTGGA 2546
                                                                                                                                                                                                                                                                                                                                                                                                 17 TTGGAAGAAGACTTGAA 1
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                                      NISSHINBO :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
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            Kagiya T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cowsert LM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Page 79; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
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                                      S INC.
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            Ichihara T,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 13.8; DB 1;
Pred. No. 1.9e+02;
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            Matsumura
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            Moriya S,
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            Nishida
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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Human leukocyte antigen (HLA) typing, useful for judging HLA genotypes of individuals e.g. by determining immunogenetic differences when

determining

transplanting between them -

121; 345pp;

Japanese.

WPI; 2002-122074/16

The invention relates to a typing kit for judging human leukocyte antigen (HIAA) genotype of a sample by hybridising a substrate on which 10-24 base oligonucleotides (ABL30512-ABL31809) originating in the sequences of genes e.g. belonging to HIA class I antigens on human genome and containing gene polymorphisms as alloantigens have been immobilised as primers for amplification of cleaved nucleic acids relating to gene polymorphisms. The method is useful for judging HIA genotypes of individuals by determining immunogenetic differences before transplanting between them, providing genetic information to decide compatibility of organ and tissue for transplantation e.g. of bone marrow, kidney, liver, pancreas, Langerhans islet in pancreas and cornea, susceptibility diagnosis of genetic diseases and identifying individuals.

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Sequence 18

BP; 3

A; 3 C; 6

G; 6 T; 0

other;

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Best Local
                                                                                                                                                21-APR-2000;
03-JUL-2000;
10-AUG-2000;
The present invention
                                        Relaxin family polypeptides and antibodies recognizing them for treatment and diagnosis of metabolic disorders such as diabetes
                                                                         WPI; 2002-049275/06.
                                                                                                                                                                                          20-APR-2001; 2001WO-JP03399
                                                                                                                                                                                                                01-NOV-2001.
                                                                                                                                                                                                                                    WO200181562-A1
                                                                                                                                                                                                                                                         Unidentified
                                                                                                                                                                                                                                                                                       antiarteriosclerotic; immunosuppressive; cytostatic; fibroidosis; metabolic regulation; metabolic disorder; reproductive function; neurological disorder; immune disorder; scleroderma; angiogenesis
                                                                                                                                                                                                                                                                                                                       Relaxin; IGF; insulin; antidiabetic; vasotropic; antiinfertility;
                                                                                                                                                                                                                                                                                                                                            Relaxin/IGF/insulin family proteins related PCR primer SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                 20-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                      ABA03503;
                                                                                                                                                                                                                                                                                                                                                                                                        ABA03503 standard; DNA; 18
                                                                                                                                                                                                                                                                             primer; ss
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                                                                                                                  TAKEDA CHEM IND LTD
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                                                                                             Suzuki N,
                                                                                                                                     ; 2000JP-0126340.
; 2000JP-0205587.
; 2000JP-0247962.
; 2000JP-0395050.
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                                                                                             Nishi K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.0%;
                    185pp;
  relates to polypeptides belonging to
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                                                                                             Kizawa H,
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.9e+02;
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RESULT 201
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Best Local
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The specification describes a method for determining whether a product of a gene is involved in preventing a replication error in a cell. The method comprises providing the cell with a specific inhibitor for the product and determining the level of functional expression of a marker gene in the cell, where the level of expression of the marker gene is dependent on the occurrence of the replication error. The method is used for determining whether a product of a gene is involved in preventing a replication error in a cell. The identified genes are useful for developing diagnostic tools, or as targets for drug development to manipulate cells on the basis of the presence or absence of function of the gene. Primers ABZ23504-15 were used for PCR and sequencing to analyse microsatellite instability in msh-6 worms, in the course of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Determining whether a product of a gene is involved in preventing a replication error in a cell comprises providing a specific inhibitor for the product and determining the level of expression of a marker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Caenorhabditis elegans.
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; Page 19; 47pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
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RESULT 202
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                                                 Query Match
Best Local S
Matches 14
                                                                                                                     AAX30947-31815 represent tag sequences of transcripts that are differentially expressed in colorectal cancer, in pancreatic cancer, or in both. The tag sequences can be used to identify genes by matching the tag to a gen data base member, or by using the tag sequences can also be used in a method colon or pancreatic cancer in a sample suspected of for diagnosing colon or pancreatic cancer in a sample suspected of being neoplastic. The method comprises comparing the level of at least one transcript in a first sample of a tissue to a second sample, where the first sample is a colonic tissue suspected of being neoplastic and the second sample is a normal human colonic tissue. The transcript is identified by a tag selected from AAX30947-31815. The methods of the invention can be used in the colonosis, prognosis and treatment of cancer.
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Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                        Use of isolated gene transcripts - useful for developing products for the diagnosis, prognosis and treatment of cancers, particularly colon and pancreatic cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tag sequence; colorectal cancer;
diagnosis; prognosis; treatment;
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                                                                                                                                                                                                                                                                                                                 Claim 2; Page 34; 120pp; English.
                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1999-070161/06.
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                                                                                                                                                                                                                                                                                                                                                                                                                                            VIND (OCYU)
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nilarity 88.2%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   of a transcript increased in colorectal cancer
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Pred. No. 1.9e
0; Mismatches
                                                Score 13.4; DB 1;
Pred. No. 1.7e+02;
0; Mismatches 1;
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ss.
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1.7e+02;
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RESULT 204
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                                                                                                                                                                                   Matches
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27-APR-1998;
18-SEP-1998;
25-FEB-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence represents the preferred target sequence of an enzymatic nucleic acid, especially a hammerhead ribozyme, which clest the Hepatitis C vivs (HCV) RNA sequence at the base position given
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Enzymatic nucleic acid; hammerhead ribozyme; virus replication; cirrhosis; liver failure; hepatocellular carcinoma; interferon;
                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1; Page 83; 123pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel ribozymes for the treatment hepatitis C infection -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-062023/05
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hepatitis C virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cirrhosis; liver failure; hepatocellular carcinoma;
autoimmune disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Substrate for hammerhead ribozyme which cleaves HCV
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14; Conserv
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                                                                                                                                                                                                                                       BÞ;
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98US-0100842.
99US-0257608.
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                                                                                                                                                                                             1.0%;
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                                                                                                                                                                                Score 13.4; DB 1;
Pred. No. 1.7e+02;
0; Mismatches 1,
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30-MAR-2001 AAF51572;

(first entry)

AAF51572 standard;

DNA;

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RESULT 205
AAF51573
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                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45133-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other broadlands.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; kelo skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityrlasi IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris growth factor mediated cell proliferation; ichthyosis; serborrhoea; ru
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation -
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Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
                                    IGF-I oligonucleotide #2533.
                                                                                                             AAF51573;
                                                                                                                                            AAF51573 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                            Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                               blood vessels or any other hyperplasia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (MURD-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21-JUN-2000; 2000WO-AU00693
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                                                                                                                                                                                                                                                                      AGGAGCAGATGACCT
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93.3%;
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Pred. No. 1.7e+(
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                                                                                                                                                                                                                                                                                                                                         Length 15;
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RESULT 2
AAF51574
ID AAF
XX AAF
XX AAF
XX AAF
XX IGF
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can invention (see AAF45151 and AAF45133-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of
Antisense therapy; antiproliferative; antinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; kelo skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasi IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris growth factor mediated cell proliferation; ichthyosis; serborrhoea; ru
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                                                                                                                                                             IGF-I oligonucleotide #2534.
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                                                                                                                                                                                                                                                                                                                        AAF51574 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   blood vessels or any other hyperplasia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
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Pred. No. 1
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                                                         pityriasis;
                                pilaris;
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RESULT 207
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Best Local
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          Antisense therapy; antiproliferative; antinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.
                                                                                                                                                                    IGF-I oligonucleotide
                                                                                                                                                                                                     30-MAR-2001
                                                                                                                                                                                                                                                                       AAF52665 standard; DNA; 15 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              blood vessels or any other hyperplasia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            retina, brain or skin, growth factor-mediated malignancies, other scierotic disease, kidney disease, hyperproliferation of the insi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       proliferation and/or inflammation
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hyperneovascular condition; hyperplasia; kidney disease;
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                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C; 4
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                                                                                                                                                                                                                                                                                                                                                                                                                        Score 13.4; DB 1;
Pred. No. 1.7e+02;
0; Mismatches 1;
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WO200078341-A1

neovascular

condition

condition; hyperplasia; ition of the retina; ss.

kidney disease;

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RESULT 208
AAF52666
ID AAF526
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                                                                                                                    Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
                                                                                                                                                                                                                                                                                        30-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisucleic acid that inhibits or reduces growth factor mediated cell
                                                                                                                                                                                                                                                                                                                                                              AAF52666 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 8; Page 84; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       proliferation and/or inflammation
                                                                                                                                                                                                                                                     IGF-I oligonucleotide #3626.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-041421/05
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (MURD-) MURDOCH CHILDRENS RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2326 GATGTCTGGTCCTTC 2340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       GACGTCTGGTCCTTC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Werther
                                                                                                                                                                                                                                                                                       (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        any other
                                                                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               93.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5 C; 4 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                       15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hyperplasia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ٥,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 13.4; DB 1;
Pred. No. 1.7e+02;
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RESULT 209
ABX01217/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             oligonucleotides of the present invention (see AAF45151 and AAF45133-F45161). The method is useful for ameliorating the effects of psorlasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonuclectide, (for Insulin-like Growth Factor [IGF-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP], which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisuccleic acid that inhibits or reduces growth factor mediated cell
                                                                                                                                                                                                           Enzymatic nucleic acid; RNA cleavage; Hepatitis C virus infection; HCV ribozyme; HCV expression; HCV replication; cirrhosis; virucide; liver failure; hepatocellular carcinoma; HCV infection; drug therapy; type I interferon; interferon alpha; interferon beta; cytostatic;
               23-MAR-1999;
                                                23-MAR-1999;
                                                                                                                 US2002082225-A1.
                                                                                                                                               Hepatitis C virus.
                                                                                                                                                                                                                                                                                                Hepatitis C virus substrate #999 for HCV hammerhead ribozyme #999
                                                                                                                                                                                                                                                                                                                                  23-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                   ABX01217;
                                                                                                                                                                                                                                                                                                                                                                                               ABX01217 standard; RNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 15 BP; 1 A; 5 C; 4 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 8; Page 84; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     proliferation and/or inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-041421/05
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (MURD-)
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                                                                                                                                                                         interferon gamma; consensus interreron; nepatoti
substrate; hammerhead ribozyme; HH ribozyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2327 ATGTCTGGTCCTTCG 2341
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
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                                                                                                                                                                                                                                                                                                                                (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000WO-AU00693
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               99US-0274553
                                                99US-0274553.
                                                                                                                                                                                               consensus interferon; hepatotropic; antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 13.4; DB 1;
Pred. No. 1.7e+02;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 15;
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RESULT 210
ABK32132/c
ID ABK321
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or chairpin (HP) motif where the binding arms comprise sequences complementary to one of the substrate sequences defined in the specification. The HCV ribozymes are useful for modulating the expression and/or replication of HCV. They can be used to treat cirrhosis, liver failure and/or hepaticellular carcinoma. The HCV ribozymes are also useful for treating a condition associated with HCV infection in conjunction with one or more other drug therapies, particularly type I interferon, especially interferon alpha, beta or gamma or consensus interferon. The present sequence represents a substrate for a HCV hammerhead (HH) ribozyme.

Note: Some of the sequence data for this patent did not form part of the printed specification. The complete sequence data for this patent was obtained in electronic format directly from the USPTO web site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New ribozymes targeting RNA derived from hepatitis C virus inhibit viral replication and are useful to treat hepatitis C virus infectand cirrhosis, liver failure or hepatocellular carcinoma
                                                                                                                                                 US6333152-B1
                                                                                                                                                                                                                                                                                                                   ABK32132;
                                                                                                                                                                                                                                                                                                                                            ABK32132 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (BLAT/)
(MCSW/)
(ROBE/)
(PAVC/)
            Vogelstein B,
                                                                 20-MAY-1998;
                                                                                                                       25-DEC-2001.
                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                       cancer marker; ss.
                                                                                                                                                                                                                                                           Human colon cancer SAGE tag #233.
                                                                                                                                                                                                                                                                                       23-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15 BP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to enzymatic nucleic acids which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; Page 50; 80pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-617759/66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Blatt L,
                                       VIND ( OFAD)
                                                                                            20-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (MACE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   seqdata.uspto.gov/psipsDIDEntry.html.
                                                                                                                                                                                                                                                                                                                                                                                                                                         2433 CAGAATGGATAAGCC 2447
                                                                                                                                                                                                                                                                                                                                                                                                                 15 CAGAGTGGATAAGCC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14;
                                                                                                                                                                                                                 colon cancer; colorectal cancer; pancreatic cancer; SAGE tag; analysis of gene expression; diagnostic; prognostic; probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MCSWIGGEN J
ROBERTS B.
PAVCO P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MACEJACK D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              McSwiggen JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                      JOHNS HOPKINS.
                                                                                                                                                                                                                                                                                       (first entry)
            Kinzler KW,
                                                                 98US-0081646
                                                                                              98US-0081646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1.0%;
93.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5 C; 3 G; 5 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        derived from Hepatitis C virus (HCV).
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           Zhang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 13.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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            Zhou
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
            Σ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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oma -
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RESULT 211
ANV48733/c
ID ANV487
XX ANV487
XX ANV487
XX IS-OCT
XX ErbB-2
XX BP8565
XX CO-AUG
PT GCOSSEC
CC CONSEC
CC 
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Best Local S
Matches 14
                                           AAV48709-886 represent antisense oligonucleotides directed against the EarbB-2 gene. Of these, only oligonucleotides AAV48709-91 resulted in significant redcution in ErbB-2 protein expression, while oligonucleotides AAV48792-886 had little effect. The oligonucleotides exemplify the invention. The specification describes oligonucleotides that contain 8-30 nucleotides, which contain at most 8 nucleotides that can each form three hydrogen bonds to cytosine; do not contain four consecutive nucleotides able to form three H-bonds each to four consecutive nucleotides able to form three H-bonds each to four
                                                                                                                                                                                                                                                                                                                                                                                      Preparation of antisense oligo:nucleotide(s) which lack long runs consecutive guanosine or inosine - and have specific ratio of residues able to form two or three hydrogen bonds, have greater activity and reduced toxicity, used therapeutically or to modulate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to an isolated, purified human nucleic acid (I) that has the same sequence as a mRNA found in humans and is a SAGE (serial analysis of gene expression) tag comprising a single stranded probe containing at least 10 consecutive nucleotides. SAGE tags, are diagnostic and prognostic markers of cancer, especially of the colon a pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Brysch W,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31-JAN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-JAN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-AUG-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EP856579-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ErbB-2; antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ErbB-2 gene antisense oligonucleotide ErbB-2-25.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1998-400910/35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2002-153821/20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCCAGCTGCTCCATG 1
                                                                                                                                                                                                                                                                                                        Fig 6a;
                                                                                                                                                                                                                                                                                                                                                                    cells in culture
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Schlingensiepen
  cytosines; do each able to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first
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                                                                                                                                                                                                                                                                                                        286pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  oligonucleotide; modulate; gene
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                               do not
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Pred.
  contain two sequences of three consecutive three H-bonds to three consecutive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         e 13.4; Db 1,
No. 1.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    expression;
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Enzymatic for the tr

ic nucleic acid molecules having a treatment of arthritis, induction nt of auto-immune diseases

hammer-head motif - of graft tolerance o

WPI; 1996-300653/30.

The present invention describes a novel enzymatic having a hammerhead motif (HM) comprising: (i) at

nucleic least 5

acid (ENA) ribose

307pp;

English

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RESULT 212
AAX63801
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04-MAY-1995;
07-JUL-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cytosines, and the ratio between residues able to form two H-bonds each (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The oligonucleotides are used to modulate expression of genes, particularl the genes for p53, ErB-2, junB, junD, TGF-beta 1 or beta 2 to control proliferation of primary cell cultures (e.g. bone marrow stem, liver of kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The oligonucleotides can also be used to analyse function of proteins (by altering their expression or activity) and therapeutically, e.g. in cases of cancer or (targeting TGF) for stimulating the immune system.
                                                                                                                                Draper K, Gustofson J, McSy
Beigelman L, Karpeisky A, I
Matulic-Adamic J, Jarvis T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Arthritic condition; graft tolerance; immune response; target; cleavage; hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; collagenase; stromelysin; synovial membrane; joint; arthritis; osteoarthritis; rheumatoid arthritis; autoimmune disease; allergy; inflammation;
                                                                                                                                                                                                                                                                      20-APR-1995
                                                                                                                                                                                                                                                                                 17-FEB-1995;
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                                                                                                                                                                                                                                                                                                         13-DEC-1994;
23-DEC-1994;
                                                                                                                                                                                                                                                                                                                                   05-OCT-1995;
                                                                                                                                                                                                                                                                                                                                                          22-NOV-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                Oryctolagus cuniculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                           diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rabbit stromelysin hammerhead target
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                                                                                                                                                                                  (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16 BP; 4 A; 7 C; 2 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAGAGTGATGTGG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                   95US-0432874.
95US-0434509.
95US-0000951.
95US-0000974.
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                                                                                                                                                                                                                                                                     95US-0426124.
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                                                                                                                                McSwiggen J, Pavco P
A, Modak A, Usman N,
S T, Thompson JD, Wi
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Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                           Pavco P, Stand
Usman N, Burgin A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4; DB 1;
1.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NO:433
                                                                                                                                                         Stinchcomb
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               two H-bonds each
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        particularly
to control
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              liver or
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RESULT 213
AAT12596
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 12; Conserv
The present sequence is that of a PCR primer used for isolating the 3'-end of a cDNA sequence coding for the human protease designated T which is related to the interleukin-1 beta converting enzyme (ICB) and which induces apoptosis. First, a 600 bp fragment of the coding sequence was isolated from human monocyte cDNA using primers based on the sequence of a human genomic fragment which was 92% identical the exon 6 sequence of the human ICE gene. Then, the 5'- and 3'-ends were amplified using the Rapid Amplification of cDNA Ends (RACE)
                                                                                                                                                                                                                                                                                                                   New DNA encoding human promaturation of interleukin autoimmune diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             induction; inflammation; autoimmune disease; neurodegeneration;
cancer; infection; treatment; Tx protein; anchored PCR;
polymerase chain reaction; amplification primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1996-129403/13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               02-AUG-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human Tx protease cDNA primer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (ROUS )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Interleukin-1 beta converting enzyme;
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                                                                                                                                                                                                                                                                 1; Page 17; 88pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ROUSSEL-UCLAF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            UGGACUCCAACACCC 17
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                                                                                                                                                                                                                                                                                                                                                 protease(s) that induce apoptosis
kin converting enzyme, useful e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               'n,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 13.4; DB
Pred. No. 2e+02;
2; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lalanne
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ICE; protease; apoptosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JĿ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Livingston DJ,
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RESULT 215 AAX71605 ID AAX716

AAX71605 standard; RNA;

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GTGATTACAGCTTCC

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RESULT 214
AA735236/c
ID AA735236/c
ID AA73523
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                                                         Matches
                                                                                Query Match
Best Local
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                                                                                                                                                                                                        A series of primers (AAT35236-49) were used to sequence natural killer lytic associated protein clones (see also AAT35233) in pBluescript. Confirmation of the sequence of the 5' G-C rich region of the NKLAP gene was performed subsequent to subcloning of the clones into M13 phage. A single open reading frame coding for a 587-amino acid protein (AAR99256) was revealed.
                                                                                                                                                         Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Natural killer lytic associated protein gene primer 194.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            New human natural killer lytic associated protein - useful for treating cancer, viral infections, graft vs. host or autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Natural killer lytic associated protein; cytotoxic T-lymphocyte; CTL; natural kill
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAT35236;
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                                                                                                                                                                                                                                                                                                                                                                                      Example 1; Page 13; 65pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                       diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1996-412588/41.
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                                                                             Local Similarity
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       1375
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14; Conserv
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                                                                                                                                                           BP; 6 A; 3 C; 4 G; 4 T; 0 other;
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Pred. No. 26
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RESULT 216
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Best Local :
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 flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
fms-like tyrosine kinase 1; kinase insert domain containing receptor;
                                            Vascular endothelial growth factor receptor; VEGF receptor; flt-1;
                                                                             Human KDR
                                                                                                           28-JUL-1999
                                                                                                                                                                    AAX71606 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 4; Page 115; 218pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nucleic acid molecule modulating VEGF receptor(s) gene expression mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
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26-OCT-1995;
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(RIBO-) RIBOZYME PH
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95US-0005974
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Pred. No. 2e+02;
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insert domain containing
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RESULT 217
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                                                                                                                                            Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis; integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme; hammerhead ribozyme; angiogenic factor; cytostatic; antidiabetic; ophthalmologic; antiinflammatory; antiarthritic; antiporiatic; ARMD; dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis; age related macular degeneration; inflammation; neovascular glaucoma;
                                                                                               myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;
tuberous sclerosis; pot-wine stain; Sturge Weber syndrome;
Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss
                                                                                                                                                                                                                                                              Integrin alpha 6 subunit substrate sequence SEQ ID NO:4477
                                                                                                                                                                                                                                                                                                19-JUN-2000
                                                                                                                                                                                                                                                                                                                                                               AAA21251 standard; RNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nucleic acid molecule modulating VEGF receptor(s) gene expression mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
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26-OCT-1995;
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAA23422 represent their corresponding target sequences. The ribozymes of the invention are used for modulating the synthesis, expression and/or stability of an mRNA encoding angiogenic factor, especially ARNT, integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are especially used to treat cancer, diabetic retinopathy, age related macular degeneration (ARMD), inflammation, and arthritis, as well as neovascular glaucoma, myopic degeneration, psoriative verruca vulgaris, angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome, and other syndromes and diseases related to the levels of ARNT, Tie-2, and other syndromes and diseases related to the levels of ARNT, Tie-2,
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11-APR-2000; 2000WO-US09721
                                                           19-OCT-2000
                                                                                                                WO200061729-A2
                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                         Ribozyme; erythropoietin; granulocyte colony stimulating factor;
                                                                                                                                                                                                                                                                                                                  Hammerhead ribozyme substrate #2471.
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                                                                                                                                                                                                                                 interferon alpha;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        integrin subunit alpha-6, or integrin subunit beta-3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    present invention describes enzymatic nucleic acid molecules with cleaving activity, which specifically cleave RNA encoded by an aryl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2166 TGTTTTGGTAACAGA 2180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17
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ARESULT 219
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Ribozy
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Best Local Similarity
                                                                                           Enzymatic and antisense nucleic acid inhibition of repressor genes, useful for producing e.g. granulocyte colony stimulating factor protein, interferon alpha and erythropoietin -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     transcription factor gene, IRF-2 and/or the CAATT Displacement Protein (CDP). Inhibition of the repressors removes prevents inhibition (and consequently increases expression of) genes involved in the production of erythropoietin, granulocyte colony stimulating factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Enzymatic and antisense nucleic acid inhibition of repressor genes, useful for producing e.g. granulocyte colony stimulating factor protein, interferon alpha and erythropoietin -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAF04956;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention relates to enzymatic and antisense nucleic acid molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EARJ/COUP-TF-1, the GATA transcription factor gene, IRF-2 and/or the CAATT Displacement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-647423/62.
                                                                                                                                                           WPI; 2000-647423/62.
                                                                                                                                                                                        Blatt L,
                                                                                                                                                                                                                                                      12-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                             Ribozyme; erythropoietin; granulocyte colony stimulating factor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hammerhead ribozyme substrate #2472.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 17 BP; 2 A; 6 C; 4 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protein and interferon alpha.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 4; Page 112; 164pp; English.
                                                                                                                                                                                                                                                                                  11-APR-2000; 2000WO-US09721
                                                                                                                                                                                                                                                                                                                   19-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                             interferon alpha;
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                                                                                                                                                                                        Zwick M,
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93.3%;
                                                                                                                                                                                          Pavco P,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>,</u>
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Pred. No. 2e
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2e+02;
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The present invention relates to enzymatic and antisense nucleic acid molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA

Claim 4; Page 112; 164pp; English

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RESULT 220
ABK02375/c
ID ABK023375/c
ID ABK023
XX ABK023
XX ABK023
XX Human
XX Human;
XW Human;
XW Cerebr
XW Cerebr
XW MCL; it
XW MCL; it
XW Inflam
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OS Synthe
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OS Synthe
XX O9-FEB
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28-FEB-2000;
06-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic; cerebroprotective; nootropic; neuroprotective; antiparkinsonian; muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme; DNAzyme; ninozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia; B-cell lymphoma; non-Hodgkin s lymphoma; NHL; lymphocytic leukaemia; human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma; MCL; immunocytoma; INC; immune thrombocytopaenia; stroke; dementia;
                                                                                                                                                        Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and central nervous system injury -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   transcription factor gene, IRF-2 and/or the CAATT Displacement protein (CDP). Inhibition of the repressors removes prevents inhibition (and consequently increases expression of) genes involved in the production of erythropoietin, granulocyte colony stimulating factor protein and interferon alpha.
  The invention relates to a nucleic acid molecule which down regulates expression of a CD20 gene and a nucleic acid molecule which down regulates expression of a neurite growth inhibitor gene (NGGO). The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a ribozyme).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inflammatory arthropathy; central nervous system injury; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis; ALS; chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS; Parkinson's disease; ataxia; Huntington's disease; Parkinson's disease; muscular dystrophy; neurodegenerative disease
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(BLAT/)
(MCSW/)
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                                                                                                                                                      central nervous system
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BLATT L.
                                                                                                                                                                                                                                                                                                                                                          CHOWRIRA B M.
                                                                                                                                                                                                                                                                                                                                                                               MCSWIGGEN J
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                                                                                                           Page
                                                                                                                                                                                                                                                                                                             McSwiggen J,
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; 2000US-185516P.
; 2000US-187128P.
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                                                                                                           131; 200pp; English
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                                                                                                                                                                                                                                                                                                               Chowrira
                                                                                                                                                      injury
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Pred. No. 2e
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(e.g. a ribozyme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 17;
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CC DNAzyme) an Inozyme (an endolytic nucleic acid cleaving a an RNA molecule possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN molecule (cleaving RNA with a YGY motif). The CD20-targetting nucleic acid is used to cleave RNA of CD20 in the presence of a divalent cation that is CC preferably Mg^2+. Furthermore, it may be contacted with a cell to reduce CC CD20 activity of the cell and treat a patient having a condition CC associated with the level of CD20. The treatment may further comprise the use of one or more therapies. In particular, the CD20 targetting CC lymphoma, low-grade or follicular NHL, lymphoma, leukaemia, B-cell condition confided acid is used to treat lymphoma, lymphoma (NHL), bulky CC lymphoma, low-grade or follicular NHL, lymphocytic leukaemia, HTV (human CC immunocytoma (IMC), small B-cell lymphocytic leukaemia, HTV (human CC immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune CC divalent cation that is preferably Mg^2+. Furthermore, the nucleic acid may be used to cleave RNA of the NOGO gene in the presence of CC divalent cation that is preferably Mg^2+. Furthermore, the nucleic acid may be contacted with a cell to reduce NOGO activity of the cell and creat a patient having a condition associated with the level of NOGO. The CC entral nervous system (CNS) injury and cerebrovascular accident (CVA, central nervous system (CNS) injury and cerebrovascular accident (CVA, chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), chartes which respond to the modulation of NOGO expression. The cotates which respond to the modulation of NOGO expression. The states which respond to the modulation of the invention.
Sequence
17 BP; 4 A; 3 C; 8
G; 2 U; 0 other;
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Query Match Best Local S Matches 14 1573 TCCAGCTCCTCCATG 1587 17 Similarity Conservative 1.0%; 0 Score 13.4; DB Pred. No. 2e+02; Mismatches ۲, ۲ Length 17; 0 Gaps

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RESULT 221 ABK02376/c Human NOGO 12-MAR-2002 ABK02376 ABK02376 standard; RNA; 17 Amberzyme (first entry) #48. ВÞ

Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic; cerebroprotective, nootropic; neuroprotective; antiparkinsonian; muscular; CD20; neurite growth inhibitor gene; NNGO; hammerhead ribozyme; proxyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia; hacell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia; human immunocytom; HIV associated NHL; mantle-cell lymphoma; NCL; immunocytom; IMC; immune thrombocytopaenia; stroke; dementia; inflammatory arthropathy; central nervous system injury; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis; chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS; Parkinson's disease; ataxia; Huntington's disease; reurodegenerative disease.

Synthetic Homo sapiens.

WO200159103-A2

09-FEB-2001; 2001WO-US04273.

11-FEB-2000; 2000US-181797P

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RESULT 222
ABN08362/c
SEXEXEXE
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                                                                                                                    Query Match
Best Local Similarity
     Human GDMLP-1 17-mer scanning
                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (RIBO-)
(BLAT/)
(MCSW/)
                     29-MAY-2002
                                                                                                                                          Sequence 17
                                                                                                                                                                                                                                                                                                                                                             The invention relates to a nucleic acid molecule which down regulates expression of a CD20 gene and a nucleic acid molecule which down regulates expression of a neurite growth inhibitor gene (NDCO).
                                                                                                                                                                                                                                                                                                                                                                                           Claim 88; Page 131; 200pp; English
                                                                                                                                                                                                                                                                                                                                                                                                        and central nervous system injury
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-FEB-2000;
06-MAR-2000;
                                                                                             1573 TCCAGCTCCTCCATG 1587
                                                                                   16
                                                                                                              14;
                                                                                                                                                                                                                                                                                                                                                                                                                             acid molecules,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RIBOZYME PHARM INC
BLATT L.
                                                                                                                                                       sequence is an amberzyme molecule of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MCSWIGGEN J.
CHOWRIRA B M.
                                               standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                         McSwiggen J,
                                                                                                                                          BP; 4
                                                                                                              Conservative
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2000US-187128P.
                   (first entry)
                                                                                                                                         A; 3 C; 8
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                                                                                                                                          G; 2
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                                                                                                              Score 13.4; DB
Pred. No. 2e+02;
0; Mismatches
     SEQ ID NO:5 sequence
                                                                                                                                          U; 0 other;
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                                                                                                                    2e+02;
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                                                                                                                                                        invention.
                                                                                                              Indels
      SEQ
       ID NO:8354
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1573

TCCAGCTCCTCCATG 1587

Matches Query Match

Local

Similarity

93.3%;

Score 13.4; Pred. No. 26

4; DB 1; 2e+02;

Length 17;

<u>.</u>

Gaps

0

Conservative

0;

Mismatches No. Sequence 17

BP; 6 A; 2 C; 8 G; 1 T; 0 other;

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of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present
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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser description ionization, comprises human
                                                                N.B. The sequence data
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein
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30-JAN-2001;
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                                                                                                .nvention.
ftp.wipo.int/pub/published_pct_sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (hGDMLP-1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   invention describes a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID 8354; 214pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein
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2001WO-US00665.
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2001WO-US00667.
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                                     data for this patent did not was obtained in electronic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                describes a human genome-derived myosin-like The protein and polynucleotide sequences of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hanzel DK,
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The present invention describes a human genome-derived myosin-like CC protein 1 (hGDMLP-1). The protein and polynucleotide sequences of CC hGDMLP-1 can be used in gene therapy and vaccine production. The CC hGDMLP-1 nucleic acids can be used as probes to detect, characterise CC and quantify hGDMLP-1 nucleic acids in samples, as amplification CC substrates, to provide initial substrates for the recombinant engineering CC of hGDMLP-1 protein variants having desired phenotypic improvements, and CC for expressing the proteins. The hGDMLP-1 proteins or polypeptides may CC be used as immunogens to raise antibodies that specifically recognise CC hGDMLP-1 proteins, as standards in assays used to determine the CC concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption CC ionisation, as therapeutic supplement in patients having specific CC deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGDMLP-1 may be used for CC diagnosing a disorder associated with the expression of hGDMLP-1, in CC data the present sequence represents an oligomer used in the cc screening of the hGDMLP-1 sequence in the exemplification of the present
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ABN08363/c
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21-SEP-2000;
27-SEP-2000;
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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                                      New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human
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                                                                                                                                                                                                                                                                                                             Disclosure; SEQ ID 8355; 214pp; English.
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2001WO-US00664.
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2001WO-US00667.
2001WO-US00667.
2001WO-US00669.
2001WO-US00670.
2001US-266860P.
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2001WO-US00662.
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2000GB-0024263.
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RESULT 224
ABNO8364/C
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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
                                                                                                                                                                                                       New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1 -
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N.B. The sequence data for this patent did not form part of the specification, but was obtained in electronic format directly frat ftp.wipo.int/pub/published_pct_sequence.
                     protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, character and quantify hGDMLP-1 nucleic acids in samples, as amplification
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21-SEP-2000;
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                                                                                                                   The present
                                                                                                                                                                 Disclosure;
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                                                                                                                   invention describes a human genome-derived myosin-like
                                                                                                                                                                 SEQ ID 8356; 214pp; English
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Pred. No. 2e
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                                                                                                                                                                                                                                                                                                                                                                           Rank DR,
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                                                                                                                                                                                                                                                                                                                                                                           Shannon ME;
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to provide initial substrates

the recombinant engineering

detect, characterise as amplification

of

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RESULT 225
ABN08381/c
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Best Local 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise anibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                      Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.
            WPI; 2002-179446/23
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                                                                                                                                                  30-JAN-2001;
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30-JAN-2001;
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27-SEP-2000;
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                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             specification,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         invention.
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Similarity 93.3%;
                                                                  AEOMICA INC.
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2001WO-US00664.
2001WO-US00665.
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                                                                                           2001WO-US00670
2001US-266860P
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                                       Hanzel
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No.
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                                       Shannon
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PT New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific blomolecule capture probes for surface-enhanced laser description ionization, comprises human proteins, or as specific blomolecule capture probes for myosin-like protein hGDMLP-1 - XX

XX

Disclosure; SEQ ID 8373; 214pp; English.

XX

Disclosure; SEQ ID 8373; 21
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Matches
                                                Query Match
                                       Local
              1507 CAGCCGGCTGTGCAC 1521
17
                               l Similarity
14; Conserv
CAGCTGGCTGTGCAC
                                Conservative
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                                        Score 13.4; DB Pred. No. 2e+02;
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                                               Length
                                 Indels
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유정

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RESULT 226
ABNO8384/c
ID ABNO83
XX ABNO83
AC ABNO83
XX 29-MAY
XX Human;
KW Human;
KW muscle
KW skelet
XX SHOMO 8
XX HOMO 8
XX HOMO 8
XX HOMO 8
YX WO2001
XX PF 25-MAY
XX PR 21-SEF
PR 30-JAN
                                                                                   26-MAY-2000;
21-SEP-2000;
27-SEP-2000;
04-OCT-2000;
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                                                   30-JAN-2001;
30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                                                            Human GDMLP-1 17-mer scanning SEQ ID NO:5
               2001WO-US00661.
2001WO-US00662.
2001WO-US00663.
2001WO-US00664.
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2000US-236359P.
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                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                       Human; genome-derived myosin-like protein 1; GDMLP-1; muscle; myosin; chromosome 22; gene therapy; vaccine; skeletal muscle disorder; amplicon; screening; ss.
              WO200192524-A2
                                          Homo sapiens.
                                                                                                                              Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8943.
                                                                                                                                                                 29-MAY-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser description ionization, comprises human myosin-like protein hGDMLP-1 -
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30-JAN-2001;
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30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                1506 CCAGCCGGCTGTGCA 1520
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; 2001US-266860P.
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                                                                                                   hGDMLP-1; heart;
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ABN08952

ABN08952 standard; DNA; 17

ВP

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                                                                                                                               CC hGDMLP-1 nucleic acids can be used as probes to detect, characterise CC and quantify hGDMLP-1 nucleic acids in samples, as amplification CC substrates, to provide initial substrates for the recombinant engineering CC of hGDMLP-1 protein variants having desired phenotypic improvements, and CC for expressing the proteins. The hGDMLP-1 proteins or polypeptides may CC be used as immunogens to raise antibodies that specifically recognise CC hGDMLP-1 proteins, as standards in assays used to determine the CC concentration and/or amount specifically of hGDMLP proteins, as specific concentration as therapeutic supplement in patients having specific concentration, as therapeutic supplement in patients having specific consistion, as therapeutic supplement in patients having specific conficiency in hGDMLP-1 production, and in vaccines or for replacement concentration, as therapeutic supplement in patients having specific conficiency in hGDMLP-1 production, and in vaccines or for replacement concentration as the associated with the expression of hGDMLP-1, in CC diagnosing a disorder associated with the expression of hGDMLP-1, in CC chromosome 22. The present sequence represents an oligomer used in the creening of the hGDMLP-1 sequence in the exemplification of the present invention.
                                                            Query Match
Best Local Similarity
Matches 14; Conserv
                                                                                                                             Sequence 17 BP; 4
                                                                                                                                                                                              N.B. The sequence data
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human
                                                                                                                                                          at ftp.wipo.int/pub/published_pct_sequence
                                                                                                                                                                             specification,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes a human genome-derived myosin-like
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; SEQ ID 8943; 214pp; English.
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30-JAN-2001;
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30-JAN-2001;
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27-SEP-2000;
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                              1355 CAGCGCCTGGAAGAG 1369
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                                                               Conservative
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2001WO-US00665.
2001WO-US00666.
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                                                                             93.3%;
                                                                                              1.0%;
                                                                                                                                                                             obtained in electronic
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                                                               0
                                                                               Score 13.4;
Pred. No. 26
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                                                               Mismatches
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                                                                                2e+02;
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muscle; myosin; chromosome 22; gene therapy; vacci skeletal muscle disorder; amplicon; screening; ss.

genome-derived myosin-like protein 1;

Human GDMLP-1 17-mer scanning

SEQ ID NO:5 sequence SEQ

ID NO:8944.

rotein 1; GDMLP-1; hGDMLP-1; heart; therapy; vaccine; heart disease;

29-MAY-2002

(first entry

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The present invention describes a human genome-derived myosin-like CC protein 1 (hGDMLP-1). The protein and polynucleotide sequences of CC hGDMLP-1 can be used in gene therapy and vaccine production. The CC hGDMLP-1 nucleic acids can be used as probes to detect, characterise CC and quantify hGDMLP-1 nucleic acids in samples, as amplification CC substrates, to provide initial substrates for the recombinant engineering CC of hGDMLP-1 protein variants having desired phenotypic improvements, and CC for expressing the proteins. The hGDMLP-1 proteins or polypeptides may CC be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the CC concentration and/or amount specifically of hGDMLP proteins, as specific CC deficiency in hGDMLP-1 production, and in vaccines or for replacement CC diagnosing a disorder associated with the expression of hGDMLP-1, in CC diagnosing a disorder associated with the expression of hGDMLP-1, in CC chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gu Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-DEC-2001.
                                        N.B. The sequence data for this patent did not specification, but was obtained in electronic i
                                                                                                                                                                                                                                                                                                                                                                              Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                           myosin-like protein
                                                                                                                                                                                                                                                                                                                                                                                                                         surface-enhanced
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30-JAN-2001;
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27-SEP-2000;
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                                                                   invention.
                         ftp.wipo.int/pub/published_pct_sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                      eptide, for raising antibodies that recognize hGDMLP-1 or as specific biomolecule capture probes for nhanced laser desorption ionization, comprises human
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                                                                                                                                                                                                                                                                                                                                                                             SEQ ID 8944; 214pp; English
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Query Match

Sequence 17

BP; 3

A; 5 C; 8

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RESULT 229
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                                                                             of hGDMLP-1 protein variants having desired phenotypic improvements, as for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specifically of hGDMLP proteins, as specifically of hGDMLP proteins.
                                                                                                                                                                                                            The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; genome-derived myosin-like protein 1; GDMLP-1; muscle; myosin; chromosome 22; gene therapy; vaccine; skeletal muscle disorder; amplicon; screening; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1
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                           biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specifi
                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; SEQ ID 8945; 214pp;
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heart disease;
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therapy. The polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present invention.

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RESULT 230
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21-SEP-2000;
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                                                New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human
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                  Disclosure; SEQ ID 9000; 214pp; English
                                       myosin-like
                                                                                           WPI; 2002-179446/23.
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The

present invention describes a human genome-derived myosin-like

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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
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N.B. The sequence data for this patent did not not need to be needed in electronic secretarians.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 prodefice sequences encoding hGDMLP-1 asy be used for the polymolecule sequences encoding hGDMLP-1 asy be used for
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
                                                                                                                                                                                                                                        27-SEP-2000;
                                                                                                                                                                                                                                                             21-SEP-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
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                                                                  30-JAN-2001;
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                              2001WO-US00666.

2001WO-US00667.

2001WO-US00668.

2001WO-US00669.

2001WO-US00670.

2001US-266860P.
                                                                                                                                   2001WO-US00662.
2001WO-US00663.
2001WO-US00664.
2001WO-US00665.
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2000GB-0024263.
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Pred. No. 2e+02;
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RESULT 232
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
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Best Local
16-JUL-2001;
20-JUL-2001;
13-NOV-2001;
19-DEC-2001;
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                                                                                                                                                                                           Eating disorder; polymorphism; dataset; allele; HGBASE identification; serotonin receptor 1D; delta-opioid receptor; dopamine receptor D2; anorexia nervosa; bulimia nervosa; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N.B. The sequence data for this patent did not specification, but was obtained in electronic specification.
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                                                                                                                                                                                                                                                      Opioid
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                                                                                                                                                                                                                                                                                                                                               ABT34296 standard; DNA; 17
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                                                                         16-JUL-2002; 2002WO-US22555
                                                                                                         13-FEB-2003
                                                                                                                                    WO2003012143-A1
                                                                                                                                                                 Unidentified
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2001US-305153P.
2001US-306440P.
2001US-331285P.
2001US-340843P.
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Pred. No. 2e+02;
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RESULT 233
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ABT38813/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a novel isolated nucleic acid molecule comprising a variant gene associated with an eating disorder and select from any of 119 polymorphisms with their corresponding genotyping in dataset, alleles and HGBASE identification, given in the specification. The novel nucleic acid molecule has polymorphisms in the serotonin receptor 1D, delta-ophoid receptor, or dopamine receptor D2, which is useful in diagnostic and prognostic assays for eating disorders, in particular anorexia nervosa and bulimia nervosa. This polynucleotide sequence represents a opioid receptor 1D probe of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; protein chip; gene therapy; tumour suppression;
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                                                                                         New isolated nucleic acid, useful for treating viral disea associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells
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Pred. No. 2e+02;
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Disclosure;

Page

554;

720pp;

French

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RESULT 234
ABT38840
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
                                                              New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-SEP-2002; 2002WO-IB04208.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12-JUN-2003
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                                                                                                                                                                                                              WPI; 2003-313353/30
                                                                                                                                                                                                                                                                                Telerman A,
                                                                                                                                                                                                                                                                                                                                                          (MOLE-) MOLECULAR ENGINES LAB
                                                                                                                                                                                                                                                                                                                                                                                                                            17-SEP-2001; 2001FR-0011978.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO2003025175-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tumour suppression related human fukutin oligo SEQ ID No 4477.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABT38840;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1930 GCCTGCACACAGGAT 1944
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                Amson R,
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   557;
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720pp; French
                                                                                                                                                                                                                                                                                Tuijnder M;
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The invention relates to a novel isolated 17 mer nucleic acid given in the specification, a sequence containing at least 15

sequence,

WPI; 2003-129306/12

11-MAY-2001; 2001US-290016P

(BIOI-) BIOINVEST LTD

13-MAY-2002; 2002WO-US14940.

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RESULT 235
ABX15000/c
ID ABX15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              consecutive nucleotides from the 17 mer sequence, a sequence with, after coptimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one component of a gene chip, in vitro as (anti)sense reagents, and for production of recombinant polypeptides. Any of the nucleic acids, polypeptides, vectors containing the nucleic acids, cells containing the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell degeneration, specifically cancer but also Alzheimer's disease and containing the nucleic acids in patient samples is useful for diagnosis and/or prognosis of these chisals. The polypeptides and antibodies are useful as components of protein both the polypeptide and antibodies are useful as components of protein chips. The nucleic acid sequences of the invention can be used in gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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Best Local
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                                                                                                                                                                                            WO200292838-A2
                                                                                                                                                                                                                                                                                     modified_base
                                                                                                                                                                                                                                                                                                                                                                     modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human delta opioid receptor OPRD1-5 SNP genotyping PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABX15000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABX15000 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 17 BP; 4 A; 2 C; 8 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            therapy. This polynucleotide sequence represents a tumour suppression related human fukutin oligonucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1861 GATCTGGTGTCAGAG 1875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    delta opioid receptor; OPRD1-5; ss; PCR; probe; SNP; nucleotide polymorphism; eating disorder; anorexia n homeostasis disorder; chromosome 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 GATCGGGTGTCAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                      moiety"
                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                          rhodamine (TAMRA)
                                                                                                                                                                                                                                      /mod_base= OTHER
/note= "G is covalently linked
                                                                                                                                                                                                                                                                                                                      note= "T is
                                                                                                                                                                                                                                                                                                                                         mod_base= OTHER
                                                                                                                                                                                                                                                                       *tag= b
                                                                                                                                                                                                                                                                                                                                                      *tag=
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                                                                                                                                                                                                                                                                                                                        covalently linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 13.4; DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No. 2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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                                                                                                                                                                                                                                           to a 6-carbotetramethyl-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      anorexia nervosa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 17;
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                                                                                                                                                                                                                                                                                                                          TET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   probe #2.
                                                                                                                                                                                                                                                                                                                        (not defined)
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RESULT 236
ABZ61761/c
ID ABZ617
XX
AC ABZ617
XX
DT 21-MAJ
DT 21-MAJ
XX
Human
XX
Human
KW Human
KW enzym
KW enzym
KW eozo
XX
DF 05-[
XX
PD 05-[
XX
PD 05-[
XX
PD 06-
PR 29-
PR 06-
PR 10-
XX
XX
PI MC
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        modulates the expression of the nucleic acid, diagnosing a genetic correction of predisposition to an eating or energy homeostasis disorder by detecting the presence or absence of the variant nucleic acid in a patient sample, can allele specific primer that detects a polymorphism in the gene encoding a delta opioid receptor associated with an eating or energy contain the variant nucleic acids. The variants are named OPRD1-1 contain the variant nucleic acids. The variants are named OPRD1-1 contain the variant opioid receptor gene is located on chromosome 1. The nucleic acid molecules and delta opioid receptor variant are useful for diagnosing a genetic predisposition to an eating or energy homeostasis disorder, such as anorexia nervosa. The allele specific primer is useful for detecting polymorphism in the gene encoding a containt are opioid receptor associated with the disorder cited.

The present sequence is a genotyping PCR probe for detecting the presence of a particular SNP (single nucleotide polymorphism) in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          delta opioid receptor variant associated with an eating or energy homeostasis disorder. Also included are a delta opioid receptor variant encoded by the nucleic acid, an isolated antibody that specifically recognises the delta opioid receptor variant, a vector comprising the nucleic acid, a host cell transformed to contain the vector, producing the polypeptide by culturing the nucleic acid, a host cell transformed to contain the vector, producing the polypeptide by culturing the polypeptide by culturing the nucleic acid, diamnosima a genetic
                                                                                                                                                                                                                                                                                                                                                  Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
anti-rheumatic; cancer; AIDS; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New isolated nucleic acid molecule encoding a delta opioid receptor variant associated with an eating or energy homeostasis disorder, useful for diagnosing a genetic predisposition to such disorder, e.g.
                         Mcswiggen
                                                                                                                         29-MAY-2001;
06-JUN-2001;
                                                                                                                                                                                      29-MAY-2002; 2002WO-US16840
                                                                                                                                                                                                                              05-DEC-2002
                                                                                                                                                                                                                                                                      WO200297114-A2
                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                Human H-Ras DNAzyme target #552.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABZ61761;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABZ61761 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to an isolated nucleic acid molecule encoding delta opioid receptor variant associated with an eating or energy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example; Page 19; 39pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               anorexia nervosa
                                                                   (RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1831 AAAGATGATGCCACA 1845
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                                                                 RIBOZYME
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAAGATGAGGCCACA
                                                                                                       ; 2001US-294140P.
; 2001US-296249P.
; 2001US-318471P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 1 A; 4 C; 5 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                   PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1.0%;
                                                                   INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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29-MAY-2001; 06-JUN-2001; 10-SEP-2001;

; 2001US-294140P. ; 2001US-296249P. ; 2001US-318471P.

29-MAY-2002; 2002WO-US16840

05-DEC-2002. WO200297114-A2. Homo sapiens.

Mcswiggen

2003-140484/13

(RIBO-) RIBOZYME PHARM INC

Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras; enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV; anti-rheumatic; cancer; AIDS; ss.

Human HER2 DNAzyme substrate

#289.

Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences -

The invention relates to a novel short interfering RI acid molecule or an enzymatic nucleic acid molecule, expression of a nucleic acid molecule encoding HER2,

RNA (siRNA) nucleic e, that modulates 2, K-Ras, H-Ras, N-Ra

Claim 4; Page

138; 185pp; English.

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RESULT 237
ABZ64832
ID ABZ648
XX ABZ648
XX ABZ648
XX ABZ648
XX LIMAN
DE Human
XX Human
XX Human
XX Homo s
XX Homo s
XX WO2002
XX WO2002
XX WO2002
XX WO2002
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XX Homo s
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PR 10-SEC
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PT HER2,
XX The im
CC acid n
CC expret
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to a novel short interfering RNA (siRNA) nucleic acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ra human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABE59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524, ABZ66530 - ABZ66535 represent substrate/target sequences for the human ribozymes of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        treating cancer, ....HER2, K-Ras, H-Ras, N-Ras,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABZ64832 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 17 BP; 3 A; 4 C; 8 G; 2 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 58; Page 121; 185pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-140484/13
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RESULT 238
ABZ65210
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Best Local :
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                        The invention relates to a novel short interfering RNA (siRNA) nucleic acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Rahuman immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ59889 - ABZ66585 represent substrate/target access to the sequences of the se
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ6531, ABZ66520 - ABZ66524, ABZ66530 - ABZ66585 represent substrate/target sequences for the human ribozymes of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encod HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences
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06-JUN-2001; 2001US-296249P.
10-SEP-2001; 2001US-318471P.
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enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
anti-rheumatic; cancer; AIDS; ss.
sequences
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human ribozymes of the invention
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Pred. No. 2e+02;
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Sequence 17 BP; 3 A;

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RESULT 239
ABZ65221
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Best Local Similarity
Matches 11; Conserv
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06-JUN-2001;
10-SEP-2001;
                                                                                                                                                                                                                                                                 acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-R human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ59889 - ABZ65216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524, ABZ66530 - ABZ66530 - ABZ66550 represent substrate/target sequences for the human ribozymes of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences
                                                                                                                                                                                                                     Sequence 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 4; Page 146; 185pp; English.
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enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21-MAR-2003 (first entry)
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                                                 CAGAGTGATGTCTGG 2334
CAGAGUGAUGUGUGG
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; 2001US-296249P.
; 2001US-318471P.
                                                                                                          Conservative
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16
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                                                                                                                                 Score 13.4;
Pred. No. 26
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                                                                                                          Mismatches
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                                                                                                                                    2e+02;
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ABF46427/c
ID ABF464
XX ABF464
XX ABF464
XX ABF464
XX Oligon
XX Oligon
XX SNP; s
KW SNP; s
KW Centra
XX Centra
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Best Local
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ABC00010-ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI82073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Set of oligonucleotides, useful for diagnosis and cell designed to detect single nucleotide polymorphisms and
              SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       designed to detect single nucleotide polymorphisms and methylation status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Olek A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Oligonucleotide SEQ ID NO 146423 for detecting SNP TSC0036912
                                                                             Oligonucleotide SEQ ID NO 146424 for detecting SNP TSC0036912.
                                                                                                              21-FEB-2002
                                                                                                                                             ABF46427;
                                                                                                                                                                           ABF46427 standard; DNA; 13
                                                                                                                                                                                                                                                                                                                                                                                   Sequence 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1; SEQ ID 146423; 29pp + Sequence Listing; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                07-APR-2000; 2000DE-1019173
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABF46426 standard; DNA;
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                                                                                                                                                                                                                                                                                     1872 AGAGATGGAGATG 1884
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                                                                                                                                                                                                                                                         AGAGATGGAGATG 13
                                                                                                                                                                                                                                                                                                                                                                                  BP; 5
                                                                                                                                                                                                                                                                                                                     larity 100.0%;
Conservative 0;
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hes 0;
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                  imer; ss;
metabolic
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RESULT 242
ABF4944
XX ABF494
XX ABF494
XX Oligon
XX SNP; 8
KW SNP; 8
KW Centra
XX Centra
XX Homo 8
XX Homo 9
XX Homo
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Olek A,
                                                                                                                                                                                                                                                                                                                                                                                                                SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oligonucleotide SEQ ID NO 149443 for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       06-APR-2001; 2001WO-IB00713
                                                                                                      07-APR-2000; 2000DE-1019173
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-657177/75.
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                                                                                                                                                                                                                                                                                                                                   sapiens.
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13; Conserv
                                                      EPIGENOMICS
                                                                                                                                                                                                                                                                                                                                                                                      nervous
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Piepenbrock C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 2 A; 6 C; 0 G; 5 T; 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                      system; gastrointestinal;
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ches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SNP TSC0037724
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RESULT 243
ABF49447/C
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XX ABF4944
XX ABF4944
XX SNP; s
KW SNP; s
KW Peptid
KW Centra
XX Homo s
XX Claim
X
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Matches 13
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   This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a
                                                                                                                                                                                                                                    Set of oligonucleotides, useful for diagnosis and cell typing, designed to detect single nucleotide polymorphisms and cytosine
                                                                                                                                                                                                              designed to methylation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABF49447;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                      (EPIG-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Set of oligonucleotides, useful for diagnosis and designed to detect single nucleotide polymorphisms
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; ide nucleic acid; cytosine methylation; cardiovascular; primer; ss; ral nervous system; gastrointestinal; respiratory; immune; metabolic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      to detect single nucleotide polymorphisms
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                                                                                                                                              ID 149444; 29pp + Sequence
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k; Pred. No. 1.6
0; Mismatches
                                                                                                                                              Listing; German.
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diagnosis

prognosis

Best Local Similarity

100.0%; 0.9%;

Score 13; DB 1; L Pred. No. 1.6e+02;

Length

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Query Match

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13

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ABH06188
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                                         This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

ABC00010-ABC99999, ABF00010-ABF99989, ABH000110-ABH99989 and ABI000110-ABB182073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABC9989, ABF00010-ABB9989, ABH00010-ABH99989 and ABI00010-ABH32073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                      Set of oligonucleotides, useful for diagnosis and cell typing, designed to detect single nucleotide polymorphisms and cytosin
                                                                                                                                                                                                                                                        Claim 1; SEQ ID 206165; 29pp + Sequence Listing; German.
                                                                                                                                                                                                                                                                                                                                                                                              Olek A,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; peptide nucleic acid; cytosine methylation; cardiovascular; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Oligonucleotide SEQ ID NO 206165 for detecting SNP TSC0050500
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                            ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                          methylation status
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ARBHO613/C
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XX SNP;
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ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH9989 and ABC00010-ABH82073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Set of oligonucleotides, useful for diagnosis and cell typing, designed to detect single nucleotide polymorphisms and cytosine methylation status
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                               ABH51404;
                                                                                    ABH51404 standard; DNA; 13
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Pred. No.
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1.6e+02;
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RESULT 247
ABH51405
ID ABH514
XX ABH514
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XX OABH514
XX OABH514
XX OABH516
XX SNP; SWP; SW Peptid
XX SNP; SW Peptid
XX SNP; SW Peptid
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Matches 13
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ABC00010-ABC99989, ABF00010-ABF99889, ABH00010-ABH99989 and ABI00010-ABIS2073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                                                                                                                                                    SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic
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                                                            WO200177384-A2
                                                                                                                                                                                                                                                                                                                                                        22-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABH51405 standard; DNA; 13
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                                                                                                                Homo sapiens.
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13; Conserv
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100.0%; Pre
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Pred. No. 1.6e+02;
0; Mismatches 0;
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18-OCT-2001.

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RESULT 248
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                                                                                                                                                                                                                                                                                                                                                                                             Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010-ABE99989, ABF00010-ABF99989, ABF00010-ABF99989 and ABI00010-ABIB1073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
  Wraight CJ,
                                                                                                                                                                                                                                  28-DEC-2000.
                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
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                                                                                                                                                                          21-JUN-2000; 2000WO-AU00693
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                                                           MURDOCH CHILDRENS RES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            detect single
Werther GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000DE-1019173
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                                                                                                                    99US-0140345.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Berlin
Edmondson SR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 13; DB 1;
Pred. No. 1.6e+(
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Matches
                                                                          Query Match
                                                                                                                                                 receptor, IGF binding protein [IGFBP]-2 or IGFBP]), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45151). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of blood vessels or any other hyperplasia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ameliorating the effects of a disorder, e.g. psoriasis, administering UV (ultra-violet) treatment (optional) and nucleic acid that inhibits or reduces growth factor med
                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
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                                                                                                                   Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              proliferation and/or inflammation -
                                                          Foca<sub>T</sub>
2057 AGGAGCAGATGAC 2069
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                                      1 Similarity
13; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Page 77; 201pp; English.
                                        Conservative
                                                                                                                   BP; 6
                                                                                                                   A; 2 C; 6
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                                                      Score 13;
Pred. No.
                                                                                                                   G; 1 T; 0 other;
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th factor mediated cell
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RESULT 249
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                                                                                       IGF-I oligonucleotide #2531.
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kidney
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Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP9; IGFBP9; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; WPI; 2001-041421/05 21-JUN-1999; 21-JUN-2000; 28-DEC-2000 Homo sapiens. (MURD-) MURDOCH CHILDRENS RES INST WO200078341-A1 neovascular condition of the retina; hyperneovascular condition; hyperplasia; 5 Werther 2000WO-AU00693. 99US-0140345. GA, Edmondson SR 88.

Ameliorating the effects of a disorder,

e.g. psoriasis,

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RESULT 250
AAF52672
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CC of skin disorders. The method comprises contacting the skin with an CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 CC receptor, IGF binding protein [IGFBB]-2 or IGFBB3], which is capable of inhibiting or reducing growth factor mediated cell proliferation, CC inflammation and/or other disorders. The present sequence is an CC oligonucleotide which can be used to design the antisense CC oligonucleotides of the present invention (see AAF45151 and CC Paperalsis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the Skin, a hyperneovascular condition such as a neovascular condition of the cretina, brain or skin, growth factor-mediated malignancies, other Sclerotic disease, kidney disease, hyperproliferation of the inside of CC blood vessels or any other hyperplasia.
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                        IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; plaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    administering UV (ultra-violet) treatment (optional) and an antisense nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation -
             Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antis nucleic acid that inhibits or reduces growth factor mediated cell proliferation and/or inflammation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid, skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 15
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                                                                                                                                                                                                                                                   21-JUN-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2057 AGGAGCAGATGAC 2069
                                                                                                       2001-041421/05
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                                                                                                                                                                                MURDOCH CHILDRENS RES INST.
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                                                                                                                                            Werther
                                                                                                                                                                                                                                                     2000WO-AU00693
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                                                                                                                                                                                                                  99US-0140345.
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                                                                                                                                            GA,
                                                                                                                                          Edmondson
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                                                                                                                                                                                                                                                                         of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP], which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neplasiss, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of the retries of the retries of the proventiation of the condition of the condi
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The present invention relates to a method of skin disorders. The method comprises co

od for ameliorating the effects contacting the skin with an

Example

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antisonucleic acid that inhibits or reduces growth factor mediated cell

an antisense

and/or inflammation

201pp;

English

21-JUN-1999; 21-JUN-2000; 28-DEC-2000 WO200078341-A1

99US-0140345.

2000WO-AU00693.

(MURD-) MURDOCH CHILDRENS RES INST

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52954/с
receptor, ler Lindhibiting or reducing inhibiting or reducing
                The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an
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                                                                                                                                                                                                                                                                                                                                      Ameliorating the effects of a disorder, e.g. psoriasis, administering UV (ultra-violet) treatment (optional) an nucleic acid that inhibits or reduces growth factor med
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                                                                                                                                                                                                                                                   Example
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of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein (IGFBP)-2 or IGFBP), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of

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ichthyosis, pityriasis,

ruba,

pilaris,

serborrhoea, keloids

present invention relates to a method for ameliorating the effects

Example

8; Page 86; 201pp;

English.

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2e+02;
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RESULT 254
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Matches 13
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Matches 13
                                                                                                                                                                                                                                                              The present invention provides the protein, cDNA and genomic sequences of human interleukin-13 (II13), and describes the single nucleotide polymorphisms (SNPs) found within the gene, which is found on chromosome 5q31. II13 is a pro-inflammatory cytokine thought to be involved in the pathogenesis of asthma and other immune and inflammatory diseases. The II13 sequences and the SNPs identified can be used in drug screening, to determine an individual's susceptibility to disease, in forensic and paternity testing, and to identify treatments for cancer, immune and inflammatory diseases, including asthma and diseases characterised by fibrosis. The present sequence is an II13 allele-specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; interleukin-13; IL13; single nucleotide polymorphism; SNP; cancer; inflammation; immune disorder; cytokine; asthma; chromosome 5q31; fibrosis; forensic; disease susceptibility; drug screening; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel polynucleotide comprising single nucleotide polymorphisms human interleukin-13 gene is useful for studying expression and function of interleukin-13, as well as diagnosing and treating of the control of the con
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             05-APR-2001.
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                                                                                                                                                       Sequence 15
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                                                                                                                                                                          The invention relates to a randomised ribozyme gene vector library CC which is introduced into a population of cells expressing negative selection marker gene operatively linked to viral nucleic acid acted on by cellular regulator of virus replication or expression (e.g. the condition translation initiation factor 2B gamma subunit, eFP2Bgamma, and proteasome alpha subunit 1, PMSA1, acting on Hepatitis C virus, HCV, CC sequences) and a target recognition sequence of recovered ribozymes are sequence to identify the cellular regulator. Also included are target sequence tags, TST, derived from eFP2Bgamma and PMSA1, the ribozyme sequence tags, RST, targetting the TSTs (and a list of target genes given in the specification), methods of identifying the ribozyme sequences and other compounds having a positive or negative effect on viral replication or expression, for identifying a compound that modulates the activity of a viral cellular regulator, identifying modulator is the activity of a viral cellular regulator.
                                                 a ribozyme reactive with a cellular regulator of virus replication or expression, and for treating an HCV infection by inhibiting the activit of a cellular regulator involved in HCV replication. The ribozymes and inhibitory compounds identified by the above screening methods are used to reduce the severity of such an infection. The methods allow ray and efficient identification of cellular genes involved in the propagation or pathogenesis of infectious agents. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            eIF2Bgamma; ribozyme; ribozyme sequence tag; RST; TST;
target sequence tag; HCV; hepatitis C virus infection; virucide;
hepatotropic; antiinflammatory; proteasome alpha subunit; PMSAl.
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Identifying cellular regulators essential in pathogenesis of infectious agents, useful for treatment of infectious diseases preferably viral diseases especially hepatitis C virus (HCV)
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RESULT 256
ADX63934/c
ID ADX639
XX AAX639
XX AAX639
XX AATCAPI
DE Rabbit
XX ATCAPI
CO RABOT
IN WO9618
XX ATCAPI
KW ATCAPI
PR 23-DEC
PR 2
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                     The present invention describes a novel enzymatic nucleic acid (ENA) CC having a hammerhead motif (HM) comprising: (1) at least 5 ribose cresidues; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii) at least ten 2'-O-methyl modifications; and (iv) a 3'-end modification. CT he ENA's can inhibit collagenase and stromelysin production in the synovial membrane of joints for the treatment or prevention of arthritis, comparison of arthritis or rheumatoid arthritis. The ENA's can also be used to treat antigen presenting cells of a donor to induce tolerance in a recipient to an alloantigen of a donor. They can also be used for treating allergies and other inflammatory conditions. The ENA's can also be used in diagnosis. Ribozyme therapy impacts on the expression of Exromelysin without introducing the non-specific effects upon gene expression which accompany treatment with retinoids and dexamethasone. The concentration of ribozyme required to affect a therapeutic treatment is lower than that required of antisense molecules, and is highly the concentration of ribozyme required to affect upon the expression of the concentration of ribozyme required to affect supon the examethasone.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Enzymatic nucleic acid molecules having for the treatment of arthritis, induction
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Beigelman L, Karpeisky A, I
Matulic-Adamic J, Jarvis T,
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Beigelman L,
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nt of auto-
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95US-0000951.
95US-0000974.
95US-0512861.
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95US-0390850.
95US-0426124.
95US-0432874.
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A, Modak A, Usman
s T, Thompson JD,
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induction
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hammer-head motif - used of graft tolerance or
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RESULT 257
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ID AAX639
XX AAX639
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DT 20-JUI
XX Rabbi
XX AATTH
XX A
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Matches 13; Conserv
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Best Local
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23-DEC-1994;
17-FEB-1995;
20-APR-1995;
02-MAY-1995;
04-MAY-1995;
07-JUL-1995;
07-JUL-1995;
The present invention describes a novel enzymatic nucleic acid (ENA) having a hammerhead motif (ENA) comprising: (i) at least 5 ribose residues; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii) at least ten 2'-O-methyl modifications; and (iv) a 3'-end modification. The ENA's can inhibit collagenase and stromelysin production in the synovial membrane of joints for the treatment or prevention of arthritis particularly osteoarthritis or rheumatoid arthritis. The ENA's can also be used to treat antigen presenting cells of a donor to induce tolerance in a recipient to an alloantigen of a donor. They can also be used for enhancing graft tolerance or for treating autoimmune disease, and for treating allergies and other inflammatory conditions. The ENA's can also
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Matulic-Adamic
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                                                                                                                                                                                                                                                                                                  Example 1; Page 154; 307pp; English.
                                                                                                                                                                                                                                                                                                                                                    treatment of auto-immune diseases
                                                                                                                                                                                                                                                                                                                                                                        Enzymatic nucleic for the treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1996-300653/30.
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13-DEC-1994;
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                                                                                                                                                                                                                                                                                                                                                                        nucleic acid molecules having a reatment of arthritis, induction
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L, Karpeisky A, I
amic J, Jarvis T,
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95US-0432874.
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A, Modak A, Usman N, Burg
B T, Thompson JD, Wincott
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Pred. No.
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of graft tol
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Best Local
The present invention describes an enzymatic nucleic acid molecule (I) with RNA cleaving activity, which modulates the expression of a plant gene. Also described is a gene comprising a cDNA sequence encoding maize Delta-9 desaturase. (I) can be used to modulate expression of a gene, preferably Delta-9 desaturase or a granule bound starch synthase (GBSS) gene, in a plant (preferably a maize or canola plant). (I) can be used to modulate caffeine synthesis in a coffee plant, nicotine production in a tobacco plant, fruit ripening processes in an apple, tomato, pear, plum or peach plant, flower pigmentation in a rose, petunia, chrysanthemum or marigold plant or lignin production in a tobacco, aspen, poplar or pine plant.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        granule bound starch synthase; hammerhead ribozyme; hairpin ribomodulation; gene expression; transgenic plant; cleavage; canola caffeine synthesis; coffee plant; nicotine production; tobacco; fruit ripening; flower pigmentation; lignin production; ss.
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Merlo PAO,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (DOWC )
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RIBOZYME PHARM INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          desaturase hamerhead ribozyme target SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Skokut
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Zea mays; delta-9 desaturase; GBSS; target; substrate;
destarch synthase; hammerhead ribozyme; hairpin ribozyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Folkerts
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
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Young SA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2428
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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Zwick MG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 17;
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RASSULT 259
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XX CAR SI
KW KDR SI
KW VASCULL
KW retino
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OS Synthe
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Best Local
                                                                                                             Matches
                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                       This sequence represents a PCR primer for DNA encoding the protein of the invention, which induces signal transduction of the vascular endothelial cell growth receptor KDR (kinase insert domain-containing receptor) by binding to its intracellular domain. The protein can be used in the investigation, diagnosis and treatment (including gene therapy) of diseases in which abnormal neovascularisation takes place, such as solid tumour proliferation, metastasis, chronic rheumatoid arthitis, psoriasis and retinopathy (including diabetic retinopathy and retinopathy of
                                                                                                                                                                                                                                                                  and retinopathy (including diabetic retinopathy and retinopathy prematurity). It may be used as a screen for candidate KDR signaturansduction inhibitors for therapeutic use.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            vascular endothelial cell growth receptor; abnormal neovascularisation; kinase insert domain-containing receptor; solid tumour proliferation; gene therapy; metastasis; chronic rheumatoid arthritis; psoriasis; retinopathy; retinopathy of prematurity; PCR primer; ss.
                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAX84687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 4; Page 67; 82pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KDR signal transduction inducing protein and antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Shibuya M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-DEC-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KDR signal transduction inducer protein; vascular endothelial cell growth recepton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Primer for KDR signal transduction inducer protein coding sequence.
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                                                                                                                                   Local
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15
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                                                                                                       l Similarity
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                                                     GCGGCTTCCAGTC 2274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 standard; DNA;
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                                                                                                                                                                                                                  B₽;
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                                                                                                             Conservative
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                                                                                                                                                                                                                  5 C; 6
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                                                                                                       Score 13; DB; Pred. No. 2.3
0; Mismatches
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Pred. No.
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0;
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hes 0;
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RESULT 261
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Best Local !
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                             Prodrug ribozyme; ribozyme; SV40; HCV; hepatitis C virus; target; Simian virus 40; NS5B; viral infection; antiviral; Cytostatic; HBV; antiallergic; immunosuppressive; gene therapy; AIDS; hepatitis B virus; cancer; leukaemia; genetic defect; allergy; autoimmune disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               agonists and antagonists; (ii) to raise antibodies; and (iii) therapeutically (reduced levels of AK are associated with resistance to nucleoside analogues with cytotoxic, anticancer and antiviral properties, with liver tumours, gout and acquired immune deficiency syndrome). Fragments of the DNA sequence are used as primers and probes to screen DNA libraries and for identifying AK-encoding nucleic acid, also as antisense therapeutics (particularly to increase local adenosine concentrations at the site of tissue injury, increasing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This sequence is a PCR primer for DNA encoding the rat brain adenosine kinase (AK) of the invention. Cells transformed with the DNA are used produce recombinant AK. The AK is used: (i) to screen for specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New nucleic acid encoding adenosine kinases and related oligo-nucleotides - expression vectors and transformed cells, used to modulate adenosine levels and to screen for specific modulators
                                                                                                             Hepatitis C
                                                                                                                                                                              ABN86972;
                                                                                                                                                                                                          ABN86972 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-JUN-1995;
                familial genetic
                                                                                                                                              29-JUL-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Adenosine kinase; cytotoxic nucleoside resistance; anticancer; antiviral; liver tumour; gout; acquired immune deficiency syndrome; tissue injury; adenosine concentration; cytoprotection; rat; PCR primer; ss.
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                disease;
                                                                                                            NS5B+ RNA oligonucleotide SEQ
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                primary genetic
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Pred. No. 2.3e+02;
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                disease;
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RRSULT 262
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CC comprising an intervening sequence removable by splicing, and/or lacking CC RNA-cleaving activity. Also described are: (i) an expression vector CC comprising (I) and preferably further comprising a tissue-specific CC promoter; (ii) a ribozyme prodrug comprising an intervening sequence in the ribozyme sequence removable by splicing, and lacking RNA-cleaving CC activity; (iii) a drug composition comprising (I); and (iv) the in vivo CC production of mature ribozyme with RNA-cleaving activity by introducing CC (I) into a eukaryote. (I) has antiviral, cytostatic, antiallergic and cimmunosuppressive activities, and can be used in ribozyme and gene CC therapy. The ribozyme prodrug is useful e.g. in gene therapy. CC particularly for treating viral infections such as AIDS and those due to hepatitis B virus (HBV) and hepatitis C virus (HCV), cancers including CC those of the liver, pancreas and colon, and leukaemia, and diseases CC caused by genetic defects such as allergy, autoimune diseases, familial continuum continuum conti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                          Human; checkpoint kinase-1; Chk1; antisense; ribozyme; gene therapy; RNA cleavage; cancer; ss.
                                                                                                                                                                                                                                                                                  09-OCT-2001
                                                                                                                                                                                                                                                                                                                              AAH95774;
                                                                                                                                                                                                                                                                                                                                                                         AAH95774 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 17 BP; 6 A; 5 C; 2 G; 4 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes a gene (I) encoding a ribozyme prodrug comprising an intervening sequence removable by splicing, and/or lacking.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 1; Page 81; 116pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel ribozyme prodrug without RNA-cleaving activity, for use e.g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-SEP-1999;
                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   defective genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2000-256997/22.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (SUMU) SUMITOMO PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2469 GTACATGATGATG 2481
                                                                                                                                                                                                                                    Chk1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTACATGATGATG 3
                                                                                                                                                                                                                                    ribozyme
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                (first entry)
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                                                                                                                                                                                                                                  substrate SEQ ID NO: 1199.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.9%; Score 13;
100.0%; Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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09-AUG-2001

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RESULT 263
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Best Local S
Matches 12
                           11-FEB-2000;
28-FEB-2000;
06-MAR-2000;
                                                                                                                                                                                                                                                                       Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic; cerebroprotective; nootropic; neuroprotective; antiparkinsonian; muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme; DNAzyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia; B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia; human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma; MCL; immunocytoma; IMC; immune thromborytopaenia; stroke; dementia; inflammatory arthropathy; central nervous system injury; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention provides nucleic acid molecules capable of downregulating the expression of the human checkpoint kinase-1 (Chk1) gene. These may be antisense or ribozyme sequences, and are useful in the treatment of diseases associated with conditions affected by Chk1 levels, including cancer. The present sequence is an oligonucleotide described in
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                                                                                                                                                                                                                              chemotherapy-induced neuropathy; amyotrophic lateral sclerosis;
Parkinson's disease; ataxia; Huntington's disease;
Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel nucleic acid molecule e.g., ribozymes or antisense nucleic acid molecules, which downregulates expression of a checkpoint kinase-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-FEB-2000; 2000US-0179983
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                                                                                        09-FEB-2001; 2001WO-US04273
                                                                                                                       16-AUG-2001
                                                                                                                                                      WO200159103-A2
                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                     Human NOGO Zinzyme #128.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABK01806 standard; RNA; 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-496922/54.
(RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (FATT/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               exemplification of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCCUGGGAGAAGG 17
                           ; 2000US-181797P.
; 2000US-185516P.
; 2000US-187128P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 6 A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Jarvis T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 13; DB 1;
Pred. No. 2.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       lung, breast or prostate cancers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Booher RN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 17;
                                                                                                                                                                                                                                 neurodegenerative disease
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RESULT 264
ABNO6895/C
ID ABNO68
XX
ABNO68
XZ
ABNO68
XX
DT 29-MAY
XX
DE Human
XX
EW Human;
KW muscle
KW skelet
XX

(first entry) 17-mer scanning

ABN06895 standard; DNA;

17

Human GDMLP-1 29-MAY-2002

SEQ ID

NO:5

sequence

SEQ

heart disease; hGDMLP-1; heart; ID NO:6887.

muscle; m skeletal

Human; genome-derived myosin-like protein 1; GDMLP-1; muscle; myosin; chromosome 22; gene therapy; vaccine;

myosin; chromosome 22; gene muscle disorder; amplicon;

片 S

14

TCCAGCTCCTCCA 2

Matches Query Match Best Local

13;

Conservative

0;

Similarity

100.0%;

Score 13; DB; Pred. No. 2.3

2.3e+02; thes 0; DB 1;

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Gaps

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Length 17; Indels

1573 TCCAGCTCCTCCA 1585

Sequence

17

BP; 3

Þ,

2 C; 0.9%;

9 G;

3 U;

0 other;

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The invention relates to a nucleic acid molecule which down regulates expression of a CD20 gene and a nucleic acid molecule which down considerable of a new responsibility of a new responsibility of a new responsibility of a new responsibility of an endolytic nucleic acids (e.g. a ribozyme or a CD NNAxyme) an Inozyme (an endolytic nucleic acid cleaving a an RNA molecule contif) and Inozyme (cleaving RNA with a NYM contif), a C-cleaver (cleaving RNA with a NYM contif) price and presence of a divalent cation that is contivity of the cell and treat a patient having a condition associated with the level of CD20. The treatment may further comprise the cuse of one or more therapies. In particular, the CD20 targetting nucleic acid may be used to treat lymphoma, leukaemia, B-cell low-grade or follicular NHL, lymphocytic leukaemia, B-cell comprise the cuse of one or more therapies. In particular, the CD20 targetting comprise the cuse of one or more therapies. In particular, the CD20 targetting cuse of one or more therapies. In particular, the CD20 targetting comprise the cuse of one or follicular NHL, lymphocytic leukaemia, B-cell lymphoma (NHL), bulky comprise the cuse of one or follicular NHL, lymphocytic leukaemia, HIV (human cumulostoma (NHC), small B-cell lymphocytic lymphoma, included acid is used to cleave RNA of the NGGO gene in the presence of a condition associated NHL, mantle-cell lymphoma, inmune cuse to treat a patient having a condition associated with the level of NGGO. The creat a patient having a condition associated with the level of NGGO. The creat a patient having a condition associated with the level of NGGO. The creat a patient having a condition associated with the level of NGGO. The creat ment may further comprise the use of one or more therapies.

CC price nother by comprise the use of one or more therapies.

CC contral nervous system (CNS) injury and cerebrovascular accident (CVA, chance) and manufaction and present the cell and cell to cell and cell to cell and cell to cell and cell to cell an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Blatt L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 88; Page 98; 200pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and central nervous system injury
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MCSW/) MCSWIGGE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         McSwiggen J,
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Homo sapiens

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CC protein 1 (hgDMLP-1). The protein and polynucleotide sequences of hgDMLP-1 can be used in gene therapy and vaccine production. The CC hgDMLP-1 can be used as probes to detect, characterise CC and quantify hgDMLP-1 nucleic acids in samples, as amplification CC substrates, to provide initial substrates for the recombinant engineering CC of hgDMLP-1 protein variants having desired phenotypic improvements, and CC for expressing the proteins. The hgDMLP-1 proteins or polypeptides may CC be used as immunogens to raise antibodies that specifically recognise CC hgDMLP-1 proteins, as standards in assays used to determine the CC concentration and/or amount specifically of hgDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption CC ionisation, as therapeutic supplement in patients having specific CC deficiency in hgDMLP-1 production, and in vaccines or for replacement CC diagnosing a disorder associated with the expression of hgDMLP-1, in CC particular heart and skeletal muscle disorders. hdDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the greening of the hgDMLP-1 sequence in the exemplification of the present
                                                                                Query Match
Best Local S
Matches 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser description ionization, comprises human
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                                                                                                                                                                                                                                           specification,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; SEQ ID 6887; 214pp; English
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30-JAN-2001;
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                                                                                                                                                                                                                                                                                  nvention.
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                                       1359 GCCTGGAAGAGAA 1371
                                                                                                                                                                                                                                      The sequence data for this patent did not ification, but was obtained in electronic
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17
                                                                                   l Similarity
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llarity 100.0%;
Conservative
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2001WO-US00663
2001WO-US00665
2001WO-US00665
2001WO-US00666
2001WO-US00666
2001WO-US00668
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2000US-234687P.
2000US-236359P.
2000GB-0024263.
2001WO-US00661.
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2001US-266860P
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                                                                                                                                                                      G; 6 T; 0
                                                                                                     Score 13;
Pred. No.
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                                                                                                                                                                        other;
                                                                                2.3e+02;
hes 0;
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RESULT 265

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CC protein 1 (hBDMLP-1) The protein and polynucleotide sequences of GDMLP-1 can be used in gene therapy and vaccine production. The CC hGDMLP-1 nucleic acids can be used as probes to detect, characterise CC and quantify hGDMLP-1 nucleic acids in samples, as amplification CC substrates, to provide initial substrates for the recombinant engineering CC of hGDMLP-1 protein variants having desired phenotypic improvements, and CC for expressing the proteins. The hGDMLP-1 proteins or polypeptides may CC hGDMLP-1 proteins, as standards in assays used to determine the CC concentration and/or amount specifically of hGDMLP, proteins, as specific of innestration, as therapeutic supplement in patients having specific CC deficiency in hGDMLP-1 proteide sequences encoding hGDMLP-1 may be used for CC deficiency in hGDMLP-1 proteide sequences encoding hGDMLP-1 may be used for CC diagnosing a disorder associated with the expression of hGDMLP-1, in CC particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present
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invention.

N.B. The sequence data for this patent did not specification, but was obtained in electronic at ftp.wipo.int/pub/published_pct_sequence.
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                                                                                                                                                                     Shannon ME;
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proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises

human

New polypeptide, for raising antibodies that recognize hGDMLP-1

myosin-like protein

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RESULT 268
ABN09038
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                                                                                                                                                                                                                                                                                                                          Homo sapiens
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                                                         2001WO-US00661.
2001WO-US00662.
2001WO-US00663.
2001WO-US00664.
2001WO-US00665.
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2000US-236359P.
2000GB-0024263.
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Conservative (
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                                            2001WO-US00666.
                            2001WO-US00667
                                                                                                                                                                                                                                                                                                                                                                                                                       17-mer scanning SEQ ID NO:5 sequence SEQ
                                                                                                                                                                                                                                                                                                                                                        disorder; amplicon; screening; ss.
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Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering
                                                                                      Sequence
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05-FEB-2001; 2001US-266860P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein 1 (hGDMLP-1). The protein and polynucleotide sequences o hGDMLP-1 can be used in gene therapy and vaccine production. The
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Similarity 100.0%;
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  0;
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Pred. No.
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    Indels
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RESULT 269
ABN09039
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XX JENAN
AC ABN09C
XX Human
XX Human
KW Human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.
                                                           25-MAY-2001; 2001WO-US16981
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21-SEP-2000;
27-SEP-2000;
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                              29-MAY-2002
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Human GDMLP-1 17-mer scanning

SEQ ID NO:5 sequence SEQ ID NO:9032

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2397 CGTGGAGGAACTT 2409

Query Match Best Local S Matches 13

l Similarity

0.9%; ilarity 100.0%; Conservative (

; Score 13; DB %; Pred. No. 2.3 0; Mismatches

DB 1; Le . 2.3e+02;

Length 17; Indels

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Gaps

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Sequence

17 BP;

4 ď 3 C;

6 G; 4 T;

0 other;

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The present invention describes a human genome-derived myosin-like CC protein 1 (hGDMLP-1). The protein and polynuclectide sequences of CC hGDMLP-1 can be used in gene therapy and vaccine production. The CC hGDMLP-1 nucleic acids can be used as probes to detect, characterise CC and quantify hGDMLP-1 nucleic acids in samples, as amplification CC substrates, to provide initial substrates for the recombinant engineering CC of hGDMLP-1 protein variants having desired phenotypic improvements, and CC for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise CC hGDMLP-1 proteins, as standards in assays used to determine the CC concentration and/or amount specifically of hGDMLP proteins, as specific Diomolecule capture probes for surface-enhanced laser description CC ionisation, as therapeutic supplement in patients having specific CC deficiency in hGDMLP-1 production, and in vaccines or for replacement the CC diagnosing a disorder associated with the expression of hGDMLP-1, in CC particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the invention
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                                 invention.

N.B. The sequence data for this patent did not specification, but was obtained in electronic f
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21-SEP-2000;
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05-FEB-2001;
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ftp.wipo.int/pub/published_pct_sequence.
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CC hGDMLP-1 can be used in gene therapy and vaccine production. The CC hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification consistency to provide initial substrates for the recombinant engineering consistency of hGDMLP-1 protein variants having desired phenotypic improvements, and conformation to proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise concentration and/or amount specifically of hGDMLP proteins, as specific concentration and/or amount specifically of hGDMLP proteins, as specific concentration and/or amount specifically of hGDMLP proteins, as specific consecution, as therapeutic supplement in patients having specific confisation, as therapeutic supplement in patients having specific confisation, as therapeutic supplement in vaccines or for replacement the therapy. The polynucleotide sequences encoding hGDMLP-1 may be used for cdiagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the
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21-SEP-2000;
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N'B. The sequence data for this patent did not specification, but was obtained in electronic is
                     The present invention describes a human genome-derived myosin-like protein 1 (hGMMLP-1). The protein and polymucleotide sequences of hGDMLP-1 and be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characteric hGDMLP-1.
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                                                                                                                            Disclosure;
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quantify hGDMLP-1 nucleic acids in samples, as amplification

characterise

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В
                                                                                                                                                                                                                                                                                         Diagnosing and/or determining a predisposition to a cellular proliferative disorder of breast tissue, in particular breast cancer, by determining the state of methylation of one or more nucleic acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; methylated gene; methylation; breast cancer; marker; WT-1; cell proliferative disorder; MIST; HOXAS; NES-1; RARbeta; Cyclin D2; retinoic acid receptor beta; oestrogen receptor; Wilms' tumour; 14.3.3 sigma; HIN-1; RASSF1A; tumour suppressor gene; hypermethylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   specification, at ftp.wipo.in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-JAN-2001; 2001US-0771357.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 2002-599803/64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     __
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llarity 100.0%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gene; hypermethylation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fackler
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                                                                with a state of methylation from a subject not having the cellular proliferative disorder of breast tissue is indicative of a cellular proliferative disorder of breast tissue in the subject. The nucleic acids may be TWIST, HOXA5, NES-1, retinoic acid receptor beta (RARbeta), cestrogen receptor, cyclin D2, Wilms' tumour gene (WT-1), 14.3.3 sigma, HIN-1 or RASSFIA. The method is useful for diagnosing and/or determining a predisposition to a cellular proliferative disorder, in particular breast cancer including ductal carcinoma in situ, lobular carcinoma, colloid carcinoma, tubular carcinoma in situ, lobular carcinoma in situ and papillary carcinoma in situ. The present sequence is a primer used in the
  Sequence 16
                                                     exemplification of the invention.
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2 A;
  0 C; 8 G; 6 T;
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Matches
                                Query Match
     2447
                  14;
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CAGCCAACTGCACCAA 2462
                  Conservative
                          0.9%;
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RESULT 274
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10-APR-2000; 11-APR-2000; (ASHB/) ASHBY M. 10-APR-2001; 2001WO-US11609. 2000US-196258P. 2000US-196063P.

Determining genetic diversity of population by analyzing a specific polymorphic region characteristic of particular genome in population interest, useful for locating mineral deposits or petroleum reserves enome in population petroleum reserves of e

WPI; 2002-010926/01

Disclosure; Page 50; 83pp; English.

The present invention relates to a method of determining the genetic diversity of a population, involving amplifying a genome subregion with a polymorphic site, cleaving amplified fragment close to the polymorphic site, immobilising the amplified fragment, splitting into two pools, adding a linker to each pool, digesting the immobilised product to form tags that are ligated to form ditags, and amplifying, cleaving and ligating to form concatemers and sequencing. The method is known as serial analysis of ribosomal DNA (SARD). This can be used to determine the genetic diversity of a population including microbial, viral or immune cell populations. The microbial population whose genetic diversity can be determined is from a sample associated with a site for petroleum or natural gas exploration, i.e., at a site of oil or gas

proliferative disorder of bustate of methylation of one subject, where the state of

methylation

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compared

present invention relates to a metho liferative disorder of breast tissue,

es to a method of diagnosing a cellular reast tissue, which involves determining the or more nucleic acids isolated from the

Claim 13;

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62; 115pp; English.

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RESULT 275
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This invention describes novel polydeoxyribonucleotides (A), for use as C triple-helix forming oligonucleotides, having at least 3 sequential purine and/or pyrimidine bases, capable of inhibiting transcription of ICAM-1. (A) has a sequence specific for the transcribed or promoter cregions of the ICAM-1 (intracellular adhesion molecule) gene. The products of the invention have antipsoriatic, dermatological, activity. (A) are used for treatment or prevention of ICAM-1-associated diseases, specifically psoriasis, neurodermatitis, allergic asthma, C crohm's disease, autoimmune diseases and transplant rejection. Compared with antisense oligonucleotides, (A) provide a longer-lasting effect (they bind directly to the gene, so a compensatory increase in transcription is not possible). (A) may be coupled to psoralen to provide light-regulatable, sequence-specific downregulation of genes; this should
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Best Local S
Matches 14
                                                                                                                                                                                                                                                                                                   Triple-helix forming polydeoxyribonucleotides, useful for treating intracellular adhesion molecule-1 related diseases, e.g. psoriasis, directed against transcribed or promoter regions of the ICAM-1 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a agricultural field, of patient sample suspected to have bacterial or fungal infection, associated with bioremediation site, or of an insect or parasite. The methods have application in fields of geochemical exploration, agriculture, bioremediation, environmental analysis, clinical microbiology, forensic science and medicine. The present sequence is an oligonucleotide described in the exemplification of the
                                                                                                                                                                                                                                                                        Claim
                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-017614/02
                                                                                                                                                                                                                                                                                                                                                                                                            Degitz KK, Beach
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       intracellular adhesion molecule; dermatological; antiasthmatic; antiinflammatory; immunosuppressive; gastrointestinal; psoriasis; neurodermatitis; allergic asthma; Crohn's disease; autoimmune disease; transplant rejection; psoralen; photo-ultra-violet therapy; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-JAN-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        reserves, associated with a site of mineral exploration, associated a agricultural field, of patient sample suspected to have bacterial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-APR-2001; 2001WO-DE01509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ICAM-1; triple helix; transcription inhibition; antipsoriatic;
intracellular adhesion molecule; dermatological; antiasthmatic
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this should
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RESULT 276
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ID AAI686
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CC triple-helix forming oligonucleotides, having at least 3 sequential CC purine and/or pyrimidine bases, capable of inhibiting transcription of CC ICAM-1. (A) has a sequence specific for the transcribed or promoter CC regions of the ICAM-1 (intracellular adhesion molecule) gene. The CC products of the invention have antipsoriatic, dermatological, CC antiasthmatic, antiinflammatory, immunosuppressive and gastrointestinal CC activity. (A) are used for treatment or prevention of ICAM-1-associated CC diseases, specifically psoriasis, neurodermatits, allergic asthma, CC Crohn's disease, autoimmune diseases and transplant rejection. Compared CC with antisense oligonucleotides, (A) provide a longer-lasting effect (they bind directly to the gene, so a compensatory increase in CC transcription is not possible). (A) may be coupled to psoralen to provide CC light-regulatable, sequence-specific downregulation of genes; this should CC make photo-ultra-violet therapy more specific, with reduced side effects. Al16859-AA16873 represent oligonucleotides used to illustrate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
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Best Local
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                                                                                                                                                                                                                                                                                                                                               Triple-helix forming polydeoxyribonucleotides, useful for treating intracellular adhesion molecule-1 related diseases, e.g. psoriasis, directed against transcribed or promoter regions of the ICAM-1 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     antiinflammatory; immunosuppressive; gastrointestinal; psoriasis; neurodermatitis; allergic asthma; Crohn's disease; autoimmune disease; transplant rejection; psoralen; photo-ultra-violet therapy; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        make photo-ultra-violet therapy more specific, with reduced side effects. AAI68599 AAI68673 represent oligonucleotides used to illustrate the
                                                                                                                                                                                                                                                                                                                   Claim 5; Page 15; 61pp;
                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-017614/02.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Degitz KK, Besch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200179487-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-APR-2000; 2000DE-1019252.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-APR-2001; 2001WO-DE01509.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-OCT-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ICAM-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ICAM-1 triple helix associated oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAM-1; triple helix; transcription inhibition; ntracellular adhesion molecule; dermatological
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2421 GAAGGAAGGACACAGA 2436
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BESCH R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEGITZ K K
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
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87.5%;
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                                                                                                                                                                                                                                                                                                                     German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP
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Pred. No. 2.
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Best Local Similarity
                                                                               Query Match
                                                      Matches
                                                                                                                                  The invention relates to a novel isolated nucleic acid molecule comprising a variant gene associated with an eating disorder and selected from any of 119 polymorphisms with their corresponding genotyping in dataset, alleles and HGBASE identification, given in the specification. The novel nucleic acid molecule has polymorphisms in the serotonin receptor 1D, delta-opioid receptor, or dopamine receptor D2, which is useful in diagnostic and prognostic assays for eating disorders, in particular anorexia nervosa and bulimia nervosa. This polymucleotide sequence represents a dopamine D2 receptor PCR primer of the invention.
                                                                                                                                                                                                                                                                                                       New nucleic acid molecule having polymorphisms in the serotonin receptor 1D, delta-opioid receptor, or dopamine receptor D2, useful in diagnostic and prognostic assays for eating disorders, such as anorexia and bulimia nervosa -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eating disorder; polymorphism; dataset; allele; HGBASE identification; serotonin receptor 1D; delta-opioid receptor; dopamine receptor D2; anorexia nervosa; bullmia nervosa; PCR; primer; ss.
                                                                                                            Sequence 16 BP; 0
                                                                                                                                                                                                                                                                             Example 2; Page 41; 149pp; English.
                                                                                                                                                                                                                                                                                                                                                                                  WPI;
                                                                                                                                                                                                                                                                                                                                                                                                           Bergen AW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-JUL-2001; 2001US-306440P.
13-NOV-2001; 2001US-331285P.
19-DEC-2001; 2001US-340843P.
19-DEC-2001; 2001US-340844P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-JUL-2001;
20-JUL-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-FEB-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO2003012143-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Dopamine-D2-receptor PCR primer SEQ ID No
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABT34223;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABT34223 standard; DNA; 16 BP
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                                                                   PocaT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2421 GAAGGAAGGACACAGA 2436
                       1785 CAAAGACAAGCCCAAG 1800
                                                                                                                                                                                                                                                                                                                                                                               2003-268122/26.
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16
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                                                                 Similarity
                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                           Yeager M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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                                                                                                          A; 2 C; 7 G; 7 T; 0 other;
                                                                0.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entry)
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87.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 12.8; D
Pred. No. 2.3e
0; Mismatches
                                                    0
                                                                 Score 12.8; DB Pred. No. 2.3e+C
                                                   Mismatches
                                                                   2.3e+02;
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.3e+02;
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                                                                               Length 16;
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RESULT 278

29-APR-1993; 25-NOV-1993.

93WO-US04020.

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AAQ52943
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Best Local Similarity
                                                                                                     RNA; enzyme; enzymatic RNA molecule; ERM; cleave; RNA; mRNA; l picorravirus; HIV; immunodeficiency virus; hepatitis B virus; papilloma virus; HPV; Epstein-Barr virus; EBV; TCLV; T-cell leukaemia virus; hepatitis C virus; HCV; cytomegalovirus; influenza virus; HSV; herpes simplex virus; vector; immune resinfluenza virus; HSV; herpes simplex virus; vector;
                                                                                                                                                                                                                                                                                                                                                                                                           Probe A1
(Updated
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                                                                                                                                                                                                                                                                                                                                                                                        Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure;
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14-MAR-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAN91716 standard;
                                                                        Synthetic.
                                                                                            antibody; ribozyme; viral RNA; treatment;
                                                                                                                                                                      Herpes simplex virus target sequence
                                                                                                                                                                                           25-MAR-2003
26-MAY-1994
                                                                                                                                                                                                                          AAQ52943;
                                                                                                                                                                                                                                               AAQ52943 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                using a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1989-311431/43.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Fuchs RL, Kishore GM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-APR-1988;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-APR-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-OCT-1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EP339009-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bacillus thuringiensis tenebrionis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Probe A1; Bacillus thuringiensis tenebrionis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Probe A1 for Bacillus thuringiensis tenebrionis.
                                                   WO9323569-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (MONS ) MONSANTO
                                                                                                                                                                                                                                                                                                                          1585
                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein of Bacillus thuringiensis bacteria - a potentiating amt. of a trypsin inhibitor.
                                                                                                                                                                                                                                                                                                                                              14;
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18
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                                                                                                                                                                                                                                                                                                      ATGAACCCCAACAACC 16
                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                        BP; 7 A; 7 C; 2 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                           based on amino acids 1-6 of the B.t.t. 25-MAR-2003 to correct PF field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                           page 13; 56pp; English.
                                                                                                                                                                                          (updated)
(first entry)
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(first entry)
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                                                                                                        hepatitis C virus; HCV; cytomegalovirus; erpes simplex virus; vector; immune respo
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Pred. No. 2.5e+02;
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                                                                                               88.
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                                                                                                                                                                                                                                                                                                                                                                                                                        toxin
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                                                                                                                                        HBV;
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RESULT 280
AAX64062
ID AAX640
XX
AC AAX640
XX
DT 20-JUL
XX
DE Rabbit
XX
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Best Local S
Matches 12
                                                                                                                                                                                                                          complementary to a substrate binding region in the specified gene target. They also have enzymatic activity, in that they specifically cleave RNA in the target. The ERMs interfere with viral replication a therefore have anti-viral properties. They can be used to attenuate viruses to be used in vaccines.

(Updated on 25-MAR-2003 to correct PN field.)

(Updated on 25-MAR-2003 to correct PR field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-MAY-1992;
14-MAY-1992;
14-MAY-1992;
14-MAY-1992;
          Rabbit stromelysin hammerhead target SEQ ID NO:694
                                                                                                                                                                                                         Sequence 17
                                                                                                                                                                                                                                                                                                             The sequences (AAQ52923-Q53037) are pref. herpes simplex virus target sequences for enzymatic RNA molecules. The RNA molecules are
                               20-JUL-1999
                                                                       AAX64062 standard; RNA; 17 BP
                                                                                                                                                                                                                                                                                                                                                                infection
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31-JUL-1992
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14-MAY-1992
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                                                                                                                                            2279 GGATGGCTCCAGAAGC 2294
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                                                                                                                                                                1 Similarity
12; Conserv
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                                                                                                                          N
                                                                                                                          GGGUGGCUCCAGAACC 17
                                                                                                                                                                                                                                                                                                                                                              RNA molecules - used to and gene expression
                                                                                                                                                                                                         BP; 3
                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                            Dudycz LW,
                                                                                                                                                                                                                                                                                                                                            15;
                               (first entry)
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92US-0884431.
92US-0884431.
92US-0884521.
92US-0933738.
92US-0935868.
92US-093686.
92US-0935859.
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92US-0882824
92US-0882886
92US-0882886
92US-0882886
92US-0882889
92US-0882921
92US-0882921
92US-0883923
92US-0883923
92US-0883843
92US-0883843
92US-0883843
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92US-0987130
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                                                                                                                                                                                                                                                                                                                                           287pp; English
                                                                                                                                                                                                         A;
5
                                                                                                                                                                         0.9%;
                                                                                                                                                                                                         C; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                INC.
                                                                                                                                                                                                                                                                                                                                                                                                                           Mcswiggen JA,
                                                                                                                                                                <u>ب</u>
                                                                                                                                                               Score 12.8; DI
Pred. No. 2.5e-
2; Mismatches
                                                                                                                                                                                                         G; 2 U; 0 other;
                                                                                                                                                                           No. 2.5e+0
                                                                                                                                                                                                                                                                                                                                                                          inhibit viral
                                                                                                                                                                8; DB 1;
2.5e+02;
ches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                            Macejak DG,
                                                                                                                                                                                                                                                                                                                                                                         replication
                                                                                                                                                                                  Length 17;
                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                            Holecek JJ;
                                                                                                                                                                0,
                                                                                                                                                                Gaps
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RESULT 281 AAX64063 ID AAX640

AAX64063 standard; RNA; 17

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                                                                                                     The present invention describes a novel enzymatic nucleic acid (ENA) CC having a hammerhead motif (HM) comprising: (i) at least 5 ribose CC residues; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii) CC at least ten 2'-O-methyl modifications; and (iv) a 3'-end modification. CC The ENA's can inhibit collagenase and stromelysin production in the ENA's can inhibit collagenase and stromelysin production in the CC synovial membrane of joints for the treatment or prevention of arthritis, CC particularly osteoarthritis or rheumatoid arthritis. The ENA's can also be used to treat antigen presenting cells of a donor to induce tolerance CC in a recipient to an alloantigen of a donor. They can also be used for CC enhancing graft tolerance or for treating autoimmune disease, and for CC treating allergies and other inflammatory conditions. The ENA's can also be used in diagnosis. Ribozyme therapy impacts on the expression of CC be used in diagnosis. Ribozyme therapy impacts on the expression of Erromelysin without introducing the non-specific effects upon gene CC expression which accompany treatment with retinoids and dexamethasone. CC The concentration of ribozyme required to affect a therapeutic treatment CC is lower than that required of antisense molecules, and is highly research invention.
                                 Query Match
Best Local Similarity
Matches 12; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Draper K,
Beigelman
                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Beigelman L, I
Matulic-Adamic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oryctolagus cuniculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Arthritic condition, graft tolerance, immune response, target; cleavage; hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; collagenase; stromelysin; synovial membrane; joint, arthritis, osteoarthritis; rheumatoid arthritis; autoimmune disease; allergy; inflammation;
                                                                                                                                     present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; Page 156; 307pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Enzymatic nucleic acid molecules having a for the treatment of arthritis, induction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1996-300653/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-JUL-1995
07-JUL-1995
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23-DEC-1994;
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13-DEC-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17-FEB-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Arthritic condition;
1694 GGGAGTTTCCAAGAGA 1709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RIBOZYME PHARM INC
                                                                                                     17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 얁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gustofson J, McSv
L, Karpeisky A, N
amic J, Jarvis T,
                                                                                                     BP;
                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 auto-immune diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            95US-0390850.
95US-0426124.
95US-0432874.
95US-0434509.
95US-0000951.
95US-0000974.
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94US-0354920.
94US-0363253.
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                                                                                                   ₽,
                                                0.9%;
                                                                                                   4 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             McSwiggen J, Pavco
A, Modak A, Usman
s T, Thompson JD,
                                                                                                   6 G; 2 U;
                                     2;
                                                  Score 12.8; DB 1;
Pred. No. 2.5e+02;
                                      Mismatches
                                                                                                   0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pavco P,
Jeman N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             hammer-head motif - us
of graft tolerance or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Wincott F;
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                                     2
                                                                 Length 17;
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                                     Indels
                                     0
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                                     Gaps
                                     0;
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                                                                                                                                                                                The present invention describes a novel enzymatic nucleic acid (ENA) Chaving a hammerhead motif (HM) comprising: (1) at least 5 ribose cresidues; (13) a 2'-C-allyl modification at position 4 of the ENA; (111) a 2'-C-allyl modifications; and (iv) a 3'-end modification. The ENA's can inhibit collagenase and stromelysin production in the synovial membrane of joints for the treatment or prevention of arthritis, particularly osteoarthritis or rheumatoid arthritis. The ENA's can also be used to treat antigen presenting cells of a donor to induce tolerance in a recipient to an alloantigen of a donor. They can also be used for treating graft tolerance or for treating autoimmune disease, and for treating allergies and other inflammatory conditions. The ENA's can also be used in diagnosis. Ribozyme therapy impacts on the expression of stromelysin without introducing the non-specific effects upon gene expression which accompany treatment with retinoids and dexamethasone.
                               Query Match
Best Local Similarity
Matches 12; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-APR-1995;
02-MAY-1995;
04-MAY-1995;
07-JUL-1995;
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23-DEC-1994;
17-FEB-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oryctolagus cuniculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Arthritic condition; graft tolerance; immune response; target; cleavage; hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; collagenase stromelysin; synovial membrane; joint; arthritis; ostcoarthritis; rheumatoid arthritis; autoimmune disease; allergy; inflammation;
                                                                                           Sequence 17
                                                                                                                                       The concentration of ribozyme required to affect a therapeutic treatment is lower than that required of antisense molecules, and is highly specific. The present sequence is used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                            Example 1; Page 156; 307pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                            treatment of auto-immune diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Enzymatic nucleic acid molecules having a hammer-head motif - unifor the treatment of arthritis, induction of graft tolerance or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1996-300653/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matulic-Adamic J, Jarvis T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Beigelman
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13-DEC-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rabbit stromelysin hammerhead target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-JUL-1999
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 1694 GGGAGTTTCCAAGAGA 1709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RIBOZYME PHARM INC
                                                                                                                             invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gustofson J, M
L, Karpeisky A,
                             0.9%;
nilarity 75.0%;
Conservative
                                                                                             BP; 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  95US-0426124.
95US-0432874.
95US-0434509.
95US-0000951.
95US-0000974.
95US-0512861.
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                                                                                             σ
                                                                                             C; 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      McSwiggen J, Pavco P, Stinch A, Modak A, Usman N, Burgin S T, Thompson JD, Wincott F;
                                                                                             G; 2
                               2;
                             Score 12.8; DB
Pred. No. 2.5e+(
2; Mismatches
                                                                                             U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO:695
                                               2.5e+02;
                                                            1:
                                                          Length 17;
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                               Indels
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                               Gaps
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RESULT 283
AAT81588/c
ID AAT815
XX
AC AAT815
XX
DT 21-DEC
XX
DE Human
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AAT81587/c
                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                        The present sequence represents the preferred target sequence for an enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves the human c-myb sequence at the base position indicated in the descriptor line. The c-myb sequence was screened for optimal ribozyme target sites using a computer folding algorithm, and regions of the mRNJ which did not form secondary folding structures and contained potential ribozyme cleavage sites were identified. Ribozymes were synthesised and their activities optimised by either varying the length of the binding arms or by modification to prevent degradation by nucleases.

The ribozymes cleave the c-myb sequence and can be used to prevent smooth muscle cell hyperproliferation in restenosis, especially after coronary angioplasty, and in cancers.
Human c-myb hammerhead ribozyme target sequence (nt. position 2972).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New enzymatic nucleic acid molecules - which cleave RNA produced e.g. c-myb, for treating restenosis or cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Enzymatic nucleic acid; hammerhead; ribozyme; cleavage; human; smooth muscle cell; hyperproliferation; restenosis; cancer; c-myb; coronary angioplasty; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAT81587 standard;
                              21-DEC-1997
                                                                                                                                                                                                                                                                                 Sequence 17 BP; 1 A; 0 C; 4 G; 12 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1; Page 79; 128pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Draper K, Jarvis T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human c-myb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21-DEC-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAT81587;
                                                                                      AAT81588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13-JAN-1995;
18-MAY-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-MAY-1995;
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                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                           2240 ATTACAAAAAGACCAC 2255
                                                                                                                                                                                                                        14;
                                                                                      standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGGAGCUUCCACGAGA 16
                                                                                                                                                                ATAACAAAAAAACCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hammerhead ribozyme target sequence (nt. position 2971).
                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                            (first entry)
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94US-0245466.
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                                                                                                                                                                                                                                      0.9%;
87.5%;
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                                                                                      RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           McSwiggen
                                                                                        17
                                                                                                                                                                                                                        <u>,,</u>
                                                                                                                                                                                                                                      Score 12.8; DB 1;
Pred. No. 2.5e+02;
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                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Stinchcomb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PT,
                                                                                                                                                                                                                                                    Length 17;
                                                                                                                                                                                                                        Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                 mRNA
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                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence represents the preferred target sequence for an enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves the human c-myb sequence at the base position indicated in the descriptor line. The c-myb sequence was screened for optimal ribozyme target sites using a computer folding algorithm, and regions of the mRNA which did not form secondary folding structures and contained potential ribozyme cleavage sites were identified. Ribozymes were synthesised and their activities optimised by either varying the length of the binding arms or by modification to prevent degradation by nucleases. The ribozymes cleave the c-myb sequence and can be used to prevent smooth muscle cell hyperproliferation in restenosis, especially after
                                                                                                                     Enzymatic nucleic acid; hammerhead; ribozyme; cleavage; human; smooth muscle cell; hyperproliferation; restenosis; cancer; c-myb; coronary angioplasty; ss.
              18-MAY-1995;
                                                                                                                                                                          Human c-myb hammerhead ribozyme target sequence (nt. position 1587)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New enzymatic nucleic acid molecules - e.g. c-myb, for treating restenosis or
                                         23-NOV-1995.
                                                                   WO9531541-A2
                                                                                              Homo
                                                                                                                                                                                                        05-OCT-1997
                                                                                                                                                                                                                                   AAT81253;
                                                                                                                                                                                                                                                             AAT81253 standard; RNA; 17 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 17 BP; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     coronary angioplasty, and in cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; Page 79; 128pp; English.
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18-MAY-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            c-myb; coronary angioplasty; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Enzymatic nucleic acid; hammerhead; ribozyme; cleavage; human;
smooth muscle cell; hyperproliferation; restenosis; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                             2240
                                                                                           sapiens
                                                                                                                                                                                                                                                                                                                                  16
                                                                                                                                                                                                                                                                                                                                                                                        14;
                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                  ATAACAAAAAAACCAC 1
                                                                                                                                                                                                                                                                                                                                                           ATTACAAAAAGACCAC 2255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Jarvis T,
                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         95US-0373124.
94US-0245466.
              95WO-US06368
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                                                                                                                                                                                                                                                                                                                                                                                                                                             A; 0 C; 4 G; 12 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                  0.9%;
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                                                                                                                                                                                                                                                                                                                                                                                       0,
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Pred. No. 2.5e+02;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Stinchcomb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           which cleave RNA produced
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                                                                                                                                                                                                                                                                                                                                                                                                              Length 17;
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RESULT 285
AAT81188/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present sequence represents the preferred target sequence for an enzymatic nucleic acid, especially a hammershead ribozyme, which cleaves the human c-myb sequence at the base position indicated in the descriptor line. The c-myb sequence was screened for optimal ribozyme target sites using a computer folding algorithm, and regions of the mRNA which did not form secondary folding structures and contained potential ribozyme estes were identified. Ribozymes were synthesised and their activities optimised by either varying the length of the binding
Claim 1; Page 68; 128pp; English
                        New enzymatic nucleic acid molecules - which cleave e.g. c-myb, for treating restenosis or cancer
                                                                                                                                                13-JAN-1995;
18-MAY-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          arms or by modification to prevent degradation by nucleases. The ribozymes cleave the c-myb sequence and can be used to prevent smooth muscle cell hyperproliferation in restenosis, especially after
                                                                   WPI; 1996-010927/01.
                                                                                            Draper K, Jarvis T,
                                                                                                                                                                                                                    23-NOV-1995
                                                                                                                                                                                                                                               WO9531541-A2
                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                   c-myb;
                                                                                                                                                                                                                                                                                                                              Enzymatic nucleic acid; hammerhead; ribozyme; cleavage; human;
                                                                                                                                                                                                                                                                                                                                                         Human c-myb hammerhead ribozyme target sequence (nt. position 1257).
                                                                                                                                                                                                                                                                                                                                                                                     29-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                AAT81188;
                                                                                                                                                                                                                                                                                                                                                                                                                                        AAT81188 standard; RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 17 BP; 7 A; 7 C; 1 G; 2 U; 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New enzymatic nucleic acid molecules - which cleave RNA produced
                                                                                                                        (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                         18-MAY-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-JAN-1995;
18-MAY-1994;
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                                                                                                                                                                                                                                                                                                   coronary
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               angioplasty, and in cancers.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Jarvis T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     for treating restenosis or cancer
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                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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                                                                                                                                                95US-0373124.
94US-0245466.
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94US-0245466.
                                                                                                                                                                                                                                                                                                   angioplasty;
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Pred. No. 2.5e+02;
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                                                          The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VEGF). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ran-1; pur; nammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease; fms-like tyrosine kinase 1; kinase insert domain containing recentor; foetal liver biance
      angiogenesis,
be treated by
                                                                                                                                                                                                                                                                                                  Claim 4;
                                                                                                                                                                                                                                                                                                                                                            Nucleic acid molecule modulating VEGF receptor(s) gene expression mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
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(RIBO-)
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26-OCT-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mouse flt-1 VEGF
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RIBOZYME PHARM INC.
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                                                                                                                                                                                                                                                                                              Page 181; 218pp; English.
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95US-0005974.
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                                  psoriasis and rheumatoid
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                                      the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VEGP). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples
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                                                                                                                                                                                                                Nucleic acid molecule modulating VEGF receptor(s) gene expression mRNA stability - useful for treating e.g. tumour anglogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
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26-OCT-1995;
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                            of nucleic acid molecules from the present invention.
                                                                                                                                                                                     Claim 4; Page 177; 218pp; English
                                                                                                                                                                                                                                                                         WPI; 1997-259017/23.
                                                                                                                                                                                                                                                                                                       Escobedo J,
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(RIBO-) RIBOZYME PHARM INC
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               28-JUL-1999
                                             AAX71390;
                                                                        AAX71390 standard; RNA; 17
                                                                                                                                                                                                                                                                                         angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention.
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95US-0005974.
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.5e+02;
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RESULT 290
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XX Human
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KW flk-1;
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KW fms-1;
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Best Local S
Matches 11
                                                           Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; KDR, hammerhead ribozyme; hairpin ribozyme; cleavage; tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular diseasefms-like tyrosine kinase 1; kinase insert domain containing recept foetal liver kinase 1; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the Synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VEGF). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nucleic acid molecule modulating VEGF: mRNA stability - useful for treating psoriasis, rheumatoid arthritis, etc.,
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                                                                                                                                                                                                                           AAX70011;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 17 BP; 9 A; 1 C; 4 G; 3 U; 0 other;
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26-OCT-1995;
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                                                                                                                                                                                                                                                                                                                                                                    1822
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95US-0005974.
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                                                                               domain containing receptor;
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WO9715662-A2 Homo sapiens.

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RESULT 291
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nucleic acid molecule modulating VEGF receptor(s) gene expression mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
             (CHIR )
                                                     11-JAN-1996;
26-OCT-1995;
                                                                                              25-OCT-1996;
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                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                            toetal liver
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                                                                                                                                                                                                                                                                                            Human flt1 VEGF receptor hammerhead ribozyme substrate
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26-OCT-1995;
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(RIBO-) RIBOZYME PHARM INC.
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Similarity 87.5%;
14; Conservative
                          CHIRON CORP
             RIBOZYME PHARM INC
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                                                                                                                                                                                                            kinase 1; ss.
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Pred. No. 2.5e+02;
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Mismatches 2;
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RRESULT 292
AAX69242/c
ID AAX692
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XX Vascul
DT 28-JUL
XX Vascul
KW Fik-1;
KW fims-1;
KW fims-1;
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                                                                                                          Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
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26-OCT-1995;
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12; Conserv
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Claim 4;

Page

62; 218pp; English

The present invention describes nucleic acid molecules which modulate

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RESULT 293
AAT47828/c
ID AAT478
XX AAT478
XX AAT478
XX DT 14-MAY
XX NP2; n
KW bilate
Mening
KW bilate
KW mening
KW diagno
KW PCR; p
XX Synthe
XX OS578
XX OS578
XX OS578
XX OFF 10-JAN
XX I0-JAN
XX I0-JAN
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XX WPI; 1
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X
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Best Local (
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                   AAT47828-T47830 are PCR primers used for the isolation of the NF2 (neurofibromatosis type 2) gene from various murine tumours. NF2 is an autosomal, dominantly inherited disorder characterised by multiple tumours of the central nervous system, predominantly bilateral vestibular schwannomas (acoustic neuromas) of the eighth cranial nerve. Other symptoms of NF2 include cranial meningiomas, spinal nerve root schwannomas and presentle lens opacities. The NF2 gene, mapped to chromosomal region 22q12 between the loci D22S1 and D22S28, acts a tumour suppressor. The NF2 gene is alternatively spliced resulting in three different isoforms encoding three different proteins, meriin isoforms I-III, which are likely to have differing functions. Merlin stands for moesin-ezrin-radixin like protein, so called due to enther articles and proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          receptors of vascular endothelial growth factor (VEGF). A patient preferably human having a condition associated with the level of the fms-like tyrosine kinase I (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase I (flk-1) (e.g. tumour angiogenesia, ocular diseases, psoriasis and rheumarcid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples of nucleic acid molecules from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New isolated mouse develop prods. for type 2 diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NF2; neurofibromatosis type 2; multiple tumours; nervous system; bilateral vestibular schwannoma; acoustic neuroma; cranial nerve; meningioma; lens opacity; chromosome region 22q12; tumour suppressor; merili; moesin-erzin-radixin like protein; alternative splicing; diagnosis; cancer; neoplasia; autosomal; dominant; hereditary;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Column 14; 46pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1997-020406/02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bianchi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-JAN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-JAN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26-NOV-1996
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-MAY-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (BRIM ) BRISTOL-MYERS SQUIBB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           primer,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Kley NA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
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the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Seizinger
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Pred. No. 2.
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RESULT 294
AAV97546
ID AAV975
XX AAV975
XX AAV975
XX AAV975
XX AAV975
XX Human
DE Human
XX Human,
KW Hammer
XX Homo &
XX Claim
XX
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Best Local Similarity
Matches 14; Conserv
                                                     represent specifically claimed target sequence from human EGF-R. AAV98044 to AAV98066 and AAV98067 to V9978 represent hammerhead ribozymes and hairpin ribozymes respectively for human EGF-R. The NAMs are useful for cleaving EGF-R RNA in the treatment of a condition associated with EGFR expression levels e.g. to inhibit cell proliferation in the prevention or treatment of cancers. The NAMs can also be used as diagnostic tools to examine genetic drift and mutations within diseased cells or to detect the presence of EGF-R RNA in a cell.
                                                                                                                                                                                                                                                                                                The present invention describes enzymatic nucleic acid molecules (NAMs) which specifically cleave RNA derived from an epidermal growth factor receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV9897 to AAV99090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            and proteins encoded by them, are useful in diagnosing NF2 disease. Merlin protein products act as tumour suppressors and can be used to suppress tumour growth, as can the cDNA sequence in gene therapy applications. Antibodies raised against merlin proteins are useful as
                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 5; Page 74; 109pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Enzymatic nucleic acids - which cleave RNA derived from an epidermal growth factor receptor, useful for inhibiting cell proliferation and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1998-437449/37.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            04-DEC-1997;
31-JAN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cancer; genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence; hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Akhtar S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-JAN-1998;
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97US-0036476.
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Query Match Best Local

Sequence

17

BP; 4

P

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G; 5 U;

0 other;

Matches

Similarity 9; Conser

Conservative

<u>ა</u>

Score 12.8; DB Pred. No. 2.5e+C 5; Mismatches

2.5e+02; ches 2;

Indels

0

Gaps

0

Length 17;

0.9%; 2 C;

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RESULT 296
AAV94632/c
ID AAV946
XX
AC AAV946
XX
AC AAV946
XX
24-FEB
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                                                                                                                                                           RESULT 295
AAV97404/c
ID AAV97404 standard; RNA; 17 BP
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                                                                                                                              Query Match
Best Local (
                                                                                                                        Matches
                                                                                                                                                                        The present invention describes enzymatic nucleic acid molecules (NAMs) which specifically cleave RNA derived from an epidermal growth factor receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090 represent specifically claimed target sequence from human EGF-R. AAV98040 to AAV98066 and AAV98867 to V9878 represent hammerhead ribozymes and hairpin ribozymes respectively for human EGF-R. The NAMs are useful for cleaving EGF-R RNA in the treatment of a condition associated with EGFR expression levels e.g. to inhibit call proliferation in the prevention or treatment of cancers. The NAMs can also be used as diagnostic tools to examine genetic drift and mutations within diseased cells or to detect the presence of EGF-R RNA in a cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence; hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation; cancer; genetic drift; detection; mutation; ss.
24-FEB-1999
                   AAV94632;
                                     AAV94632 standard;
                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                         Claim 5;
                                                                                                                                                                                                                                                                                                                    Enzymatic nucleic acids - which cleave RNA derived from an epidermal growth factor receptor, useful for inhibiting cell proliferation and
                                                                                                                                                                                                                                                                                                                                                WPI; 1998-437449/37
                                                                                                                                                                                                                                                                                                                                                                  Akhtar S,
                                                                                                                                                                                                                                                                                                                                                                                                               04-DEC-1997;
31-JAN-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                     (UYAS-)
                                                                                                                                                                                                                                                                                                                                                                                              (RIBO-)
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                                                                                                   1358 ССССТСБАЛСАСАЛАЛ 1373
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                                                                                                                              o.9%;
Similarity 87.5%;
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                                                                                                                                                                                                                                                                                        Page 71; 109pp;
                                                                                   CGACTGCAAGAGAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGUGAUGUCUGGAGCU 16
                                                                                                                                                                                                                                                                                                                                                                Fell P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      target sequence
                                                                                                                                                          BP; 1
                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                             cancers
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(first entry)
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97US-0036476.
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                                                                                                                                                           A; 4 C; 3
                                    RNA; 17
                                                                                                                                                                                                                                                                                                                                                                  McSwiggen
                                                                                                                                                                                                                                                                                        English.
                                     묤
                                                                                                                                                           G; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nucleotide position
                                                                                                                     Pred. No. 2.5e
0; Mismatches
                                                                                                                              Score 12.8; DB 1;
Pred. No. 2.5e+02;
                                                                                                                                                                                                                                                                                                                                                                  JA;
                                                                                                                                                           U; 0
                                                                                                                                                           other;
                                                                                                                       2.5e+02;
ches 2;
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                                                                                                                                        Length 17;
                                                                                                                       Indels
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                                                                                                                                                                                                       RESULT 297
AAV96482/c
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24-NOV-1997; 28-JAN-1997;

98WO-US00738. 97US-0979416. 97US-0036545.

30-JUL-1998. 14-JAN-1998; Solanum tuberosum.

WO9832843-A2

Solanidine; glucosyltransferase; potato; citrate synthase; target; hammerhead ribozyme; hairpin ribozyme; alkaloid biosynthesis;

flower formation; cleavage; solanaceous plant; ss.

Potato citrate synthase target sequence position

546

01-MAR-1999

(first entry)

AAV96482 standard; RNA;

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Query Match
Best Local Similarity
Matches 14; Conserv
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                                                                                                                                                                                                         Sequence 17
                                                                                                                                                                                                                                                                                  The present sequence invention describes ribozymes targeted to modulate the synthesis and/or expression of interleukin (II)-2R gamma encoded RNA. AAV93889 to AAV94574 represent specifically claimed ribozymes, and AAV94575 to AAV95260 represent specifically claimed substrate sequences from the present invention. The ribozymes can be used for the treatment of, e.g. graft rejection, autoimmune disease, cancer, psoriasis, allergy and other inflammatory conditions. The ribozymes are also used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ribozymes targeted to interleukin 2 - useful for treating cancer, autoimmune disease and allergies
                                                                                                                                                                                                                                                          to induce tolerance in a recipient to alloantigen from a donor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1998-333332/29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-DEC-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human IL-2 receptor g-chain substrate position
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (RIBO-) RIBOZYME PHARM INC.
                                   2156 CAGCCAGAAATGTTTT
16
CAGCCAGAAGTGATTT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page 34; 61pp; English.
                                                                                                                                                                                                           BP; 4 A; 4 C; 3 G; 6 U; 0 other;
                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Stinchcomb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            96US-0758306
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                                                                                                    0;
                                                                                                                             Score 12.8; DB 1;
Pred. No. 2.5e+02;
                                                                                                          Mismatches
                                                                                                                                                     Length
                                                                                                          Indels
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                                                                                                          Gaps
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RESULT 298
AAA18720/c
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Best Local S
Matches 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               solanaceous plants, particularly potato but also tomato, pepper, aubergine and ditura or to inhibit flowering in potato, lettuce, spinach, cabbage, brussel sprouts, arugula, kale, collards, chard, beet, turnip, sweet potato and turf grass. Also the ribozymes can be used for RNA manipulation in the same way that restriction endonucleases are for DNA, as well as to examine genetic drift and mutations in plants and to detect specific RNA. The ribozymes can be targeted to specific genes or to consensus sequences within a family of related genes, and being catalytic need to be present at only very low concentrations.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RNA-cleaving activity (e.g. ribozymes) which are capable of modulating the expression of plant genes: (i) involved in biosynthesis of alkaloids, or (ii) involved in flower formation. AAV9592 to AAV96334, and AAV96335 to AAV96354 represent potato solanidine glucosyltransferase hammerhead and hairpin ribozymes, respectively. AAV95629 to AAV96391, and AAV96335 to AAV96734 represent potato solanidine glucosyltransferase target sequences. AAV96737 to AAV97170, and AAV97171 to AAV97195 represent potato citrate synthase hammerhead and hairpin ribozymes, respectively. AAV96735 to AAV96772, and AAV97196 to AAV97220 represent potato citrate synthase target sequences. Ribozymes of the present potato citrate synthase target sequences. Ribozymes of the present invention can be used to inhibit the synthasis of toxic alkaloids in solanoreous plants, nearly notato but also formats represent
                                                                                                                                                                                                                      Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis; integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme; hammerhead ribozyme; angiogenic factor; cytostatic; antidiabetic; ophthalmologic; antinflammatory; antiarthritic; antipsoriatic; ARMD; dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis; age related macular degeneration; inflammation; neovascular glaucoma; age related macular degeneration; inflammation; neovascular glaucoma;
  24-MAR-1999;
                                         07-OCT-1999.
                                                                                                                         Homo sapiens
                                                                                                                                                              Kippel-Trenaunay-Weber
                                                                                                                                                                                    myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;
tuberous sclerosis; pot-wine stain; Sturge Weber syndrome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAA18720;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAA18720 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes enzymatic nucleic acid molecules with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              biosynthesis or regulating flowering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New enzymatic nucleic acid(s) - useful for,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1998-427939/36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-JAN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2468 TGTACATGATGAG 2483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TATACATGATGATCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Page 53; 79pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 5
                                                                                                                                                                                                                                                                                                                                                                          substrate sequence SEQ ID NO:1946.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
99WO-US06507.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Zwick MG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97US-0036599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; 4 C; 2 G; 6 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.9%;
                                                                                                                                                                  syndrome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 12.8; DB 1; Length 17; Pred. No. 2.5e+02;
                                                                                                                                                              Osler-Weber-Rendu syndrome; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    e.g. reducing alkaloid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0,
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The present invention describes enzymatic nucleic acid molecules with CC RNA cleaving activity, which specifically cleave RNA encoded by an aryl CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3 CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT, CC and AAA17168 to AAA17560 and AAA17623 to AAA17684 represent their CC corresponding target sequences, AAA17685 to AAA18385 and AAA19087 to CC AAA19154 represent ribozyme sequences for Tie-2, and AAA19386 to AAA19086 CC AAA19155 to AAA120322 represent their corresponding target sequences; AAA17685 to AAA18385 and AAA19087 to CC AAA19155 to AAA21501 to AAA21561 to AAA21550 and AAA21501 to AAA21552 represent ribozyme sequences; CC AAA12323 to AAA21561 and AAA21561 to AAA21552 represent ribozyme sequences; CC AAA21689 to AAA21688 represent their corresponding target sequences; CC AAA21689 to AAA22475 and AAA23363 to AAA23372 represent ribozyme sequence for integrin subunit beta 3, and AAA22476 to AAA23362, AAA23343 to CAAA23422 represent their corresponding target sequences. The ribozyme of the invention are used for modulating the synthesis expression and/or CC AAA21689 to AAA22475 and AAA23363 to AAA23422 represent ribozymes of the invention are used for modulating the synthesis expression and/or CC stability of an mRNA encoding angiogenic factor, especially ARNT, Tie-2. They are CC specially used to treat cancer, diabetic retinopathy, age related CC macular degeneration (ARMD), inflammation, and arthritis, as well as covasscular glaucoma, myopic degeneration, psoriasis, verruca vulgaris, CC angiotibroma of tuberous sclerosis, pot-wine stains, Sturge Weber cand other syndromes and diseases related to the levels of ARNT, Tie-2, integrin subunit beta-3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       stability of an mRNA encoding an angiogenic factors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel ribozymes for modulating the synthesis, expression and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-MAR-1998;
                                                 subunit alpha-6, or integrin subunit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Roberts E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98US-0079678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Jarvis T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Coeshott C,
                                                       beta-3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  McSwiggen JA;
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밁 Matches Query Match Local 2348 TAATGTGGGAGATCTT 2363 17 l Similarity
14; Conser TAATGTTGGAAATCTT 2 Conservative 0.9%; 0; Score 12.8; D Pred. No. 2.5e 0; Mismatches 2.5e+02; DB 1; Length 17; Indels 0 Gaps

0

17

B₽;

7 Α

4 C; 1 G;

5 U;

0 other;

RESULT 299 AAA18875

AAA18875 standard; RNA; 17

19-JUN-2000 (first entry)

Human TIE-2 substrate sequence SEQ ID NO:2101.

Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; anglogenesis; integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme; hammerhead ribozyme; anglogenic factor; cytostatic; antidiabetic; ophthalmologic; antiinflammatory; antiarthritic; antiporiatic; ARND; dermatological; RNA cleavage; cancer; dlabetic retinopathy; arthritis; age related macular degeneration; inflammation; neovascular glaucoma; myopic degeneration; psoriasis; verruca vulgaris; angiofibroma; tuberous sclerosis; pot-wine stain; Sturge Weber syndrome; ss. kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome: ss.

Homo sapiens

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RESULT 300
AAA20440/c
  W W W W W W X D X D X A X I I
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RNA Cleaving activity, which specifically cleave RNA encoded by an aryl hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3 gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT, and AAA17168 to AAA17560 and AAA17623 to AAA1884 represent their corresponding target sequences; AAA17683 to AAA18885 and AAA18196 to AAA19154 represent ribozyme sequences for Tie-2, and AAA181886 to AAA19154 represent ribozyme sequences for Tie-2, and AAA181896 to AAA19154 represent their corresponding target sequences; AAA19222 represent their corresponding target sequences; AAA19223 to AAA210361 and AAA21501 to AAA21595 represent ribozyme sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and AAA21596 to AAA21688 represent their corresponding target sequences; AAA21596 to AAA21689 represent their corresponding target sequences for integrin subunit beta 3, and AAA22476 to AAA23343 to AAA23476 to AAA23343 to AAA23476 to AAA2347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAA23422 represent their corresponding target sequences. The ribozymes the invention are used for modulating the synthesis, expression and/or stability of an mRNA encoding angiogenic factor, especially ARNT, integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are especially used to treat cancer, diabetic retinopathy, age related macular degeneration (ARMD), inflammation, and arthritis, as well as neovascular glaucoma, myopic degeneration, postiasis, verruca vulgaris, angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome, and other syndromes and diseases related to the levels of ARNT, Tie-2,
                         Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis; integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme; hammerhead ribozyme; angiogenic factor; cytostatic; antidiabetic; ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD; dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis; age related macular degeneration; inflammation; neovascular glaucoma;
                                                                                                                                                                                                                                                                             19-JUN-2000
                                                                                                                                                                                                                                                                                                                                                                                     AAA20440
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                                                                                                                                                                                                                     Integrin alpha 6 subunit substrate sequence SEQ ID NO:3666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    present invention describes enzymatic nucleic acid molecules with cleaving activity, which specifically cleave RNA encoded by an arr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2198 TAGCAGACTTTGGACT 2213
degeneration; psoriasis; verruca vulgaris;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                     standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      UAGCAGAUUUUGGAUU 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           subunit alpha-6, or integrin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        유
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        an mRNA encoding
                                                                                                                                                                                                                                                                          (first
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                                                                                                                                                                                                                                                                       entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      G; 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 12.8;
Pred. No. 2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
.5e+02;
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RESULT 301
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Integr
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XW Human;
XW integr

(first entry) σ

AAA20441 standard; RNA; 17

Integrin 19-JUN-2000

alpha

subunit substrate sequence

SEQ ID NO:3667

Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis; integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;

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Matches Query Match

2183 16

ACAATGTGATGAAAAT 2198

Local Similarity

0.9%;

Conservative

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Score 12.8; I Pred. No. 2.5e 0; Mismatches

2.5e+02; DB 1;

Length 17;

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Gaps

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The present invention describes enzymatic nucleic acid molecules with CC RNA cleaving activity, which specifically cleave RNA encoded by an aryl CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3 CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT, CC and AAA17168 to AAA17660 and AAA17623 to AAA17684 represent their CC corresponding target sequences, AAA17685 to AAA18385 and AAA19087 to CC AAA19154 represent ribozyme sequences for Tie-2, and AAA19087 to CC aAA19155 to AAA19222 represent their corresponding target sequences; CC AAA19223 to AAA20361 and AAA21501 to AAA21502 to AAA21500 and CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and CC AAA21596 to AAA21688 represent their corresponding target sequences; CC AAA19227 represent their corresponding target sequences; CC AAA21690 to AAA22475 and AAA2363 to AAA23432 represent ribozyme sequence CC aAA21689 to AAA21689 to AAA22475 and AAA22476 to AAA23432 represent their corresponding target sequence of CC crability of a subunit beta 3, and AAA22476 to AAA2362, AAA23343 to CC CAA23422 represent their corresponding target sequences. The ribozymes of CC crability, of a subunit and corresponding target sequences. The ribozymes of CC crability, of a subunit and corresponding target sequences. The ribozymes of CC crability, of a subunit and corresponding target sequences. The ribozymes of CC crability, of a subunit and corresponding target sequences. The ribozymes of CC crability, of a subunit and corresponding target sequences. The ribozymes of CC crability, of a subunit and corresponding target sequences. The ribozymes of CC crability, of a subunit and corresponding target sequences.
                                                                         stability of an mRNA encoding angiogenic factor, especially ARNT, integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are especially used to treat cancer, diabetic retinopathy, age related macular degeneration (ARMD), inflammation, and arthritis, as well as neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgari angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome and other syndromes and diseases related to the levels of ARNT, Tie-2
Sequence 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 55; Page 145; 305pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel ribozymes for modulating the synthesis, expression and/or stability of an mRNA encoding an angiogenic factors -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1999-591315/50
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  tuberous sclerosis; pot-wine stain; Sturge Weber syndrome;
Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (RIBO-) RIBOZYME PHARM INC.
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                                                     Bubunit
BP;
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                                                     alpha-6,
A;
3 C; 1 G; 8 U; 0 other;
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                                                        subunit
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                                                        beta-3.
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                                                                                                                                                                verruca vulgaris,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        88
                                                                                                          syndrome,
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RESULT 302
AAA20859
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAA23422 represent their corresponding target sequences. The ribozymes of the invention are used for modulating the synthesis, expression and/or stability of an mRNA encoding angiogenic factor, especially ARNT, integrin subunit alpha-6, or Tie-2. They are especially used to treat cancer, diabetic retinopathy, age related macular degeneration (ARMD), inflammation, and arthritis, as well as neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris, angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome, and other syndromes and diseases related to the levels of ARNT, Tie-2, and other syndromes and diseases related to the levels of ARNT, Tie-2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hammerhead ribozyme; angiogenic factor; cytostatic; antidiabetic; ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD; dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis; age related macular degeneration; inflammation; neovascular glaucoma; myopic degeneration; psoriasis; verruca vulgaris; angiofibroma; tuberous selerosis; pot-wine stain; Sturge Weber syndrome; tuberous selerosis; pot-wine stain;
                                                                                                                                                                              AAA20859 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.9%;
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Pred. No. 2.5e+02;
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19-JUN-2000

(first entry)

AAA20859;

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AAGAAAAUACCAGACU 16

Matches Query Match

2191 ATGAAAATAGCAGACT 2206

Local

l Similarity
12; Conser

Conservative

2

Mismatches

2.5e+02; ches 2; DB 1;

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Gaps

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Length 17; Indels

Score 12.8; Pred. No. 2.

Sequence

17 BP; 9

A; 4 C; 2 G; 0.9%;

2 U; 0 other;

subunit alpha-6, or integrin

subunit beta-3.

RESULT 303

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The present invention describes enzymatic nucleic acid molecules with CC RNA cleaving activity, which specifically cleave RNA encoded by an aryl CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3 CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT, CC and AAA17168 to AAA17560 and AAA17685 to AAA13885 and AAA19087 to CC CAAA19154 represent ribozyme sequences; AAA17685 to AAA19087 to CC AAA19154 represent ribozyme sequences for Tie-2, and AAA19087 to CC and AAA19155 to AAA19222 represent their corresponding target sequences; AAA19233 to AAA19155 to AAA29361 and AAA21501 to AAA2155 represent ribozyme sequences; CC AAA19223 to AAA21688 represent their corresponding target sequences; CC AAA19233 to AAA21688 represent their corresponding target sequences; CC AAA21689 to AAA21688 represent their corresponding target sequences; CC AAA21689 to AAA22475 and AAA23263 to AAA23172 represent ribozyme sequence for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to CC AAA21689 to AAA22475 and AAA23263 to AAA2342 represent ribozymes of the invention are used for modulating the synthesis, expression and/or cresponding target sequences. The ribozyme sequence for integrin subunit beta 3, integrin subunit alpha 6, or Tie-2. They are cespecially used to treat cancer, diabetic retinopathy, age related CC macular degeneration (ARMD), inflammation, and arthritis, as well as molyolic degeneration, sporiasis, verruca vulgaris, and other syndrome, weber syndrome, Osler-Weber-Rendu syndrome, integrin subunit beta-3 and diseases related to the levels of ARNT, Tie-2, integrin subunit beta-3 and diseases related to the levels of ARNT, Tie-2, integrin subunit beta-3 and diseases related to the levels of ARNT, Tie-2, integrin subunit beta-3 and diseases related to the levels of ARNT, Tie-2, integrin subunit beta-3 and diseases related to the levels of ARNT, Tie-2, integrin subunit beta-3 and diseases related to the 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          55; Page 172; 305pp; English.
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AAA21301 standard; RNA; 17 BP.

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The present invention describes enzymatic nucleic acid molecules with CC RNA cleaving activity, which specifically cleave RNA encoded by an aryl CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3 CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT, CC and AAA17168 to AAA17560 and AAA17622 represent ribozyme sequences for ARNT, CC corresponding target sequences; AAA17885 to AAA18985 and AAA19087 to CC AAA19154 represent ribozyme sequences for Tie-2, and AAA19087 to CC AAA19155 to AAA19222 represent their corresponding target sequences; CC AAA19232 to AAA21561 and AAA21501 to AAA2155 represent ribozyme cc sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and CAAA21596 to AAA21688 represent their corresponding target sequences; CC AAA19232 to AAA21688 represent their corresponding target sequences; CC AAA21689 to AAA21688 represent their corresponding target sequences; CC AAA21699 to AAA22475 and AAA23261 to AAA2342 represent ribozyme sequence for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to CC corresponding target sequences; CC AAA23422 represent their corresponding target sequences. The ribozymes of the invention are used for modulating the synthesis, expression and/or CC cabability of an mRNA encoding angiogenic factor, especially ARNT, CC especially used to treat cancer, diabetic retinopathy, age related CC macular degeneration (ARMD), inflammation, and arthritis, as well as conversed and other syndromes and disease related to the levels of ARNT, Tie-2, integrin subunit alpha-6, or integrin subunit beta-3.

CC and other syndromes and diseases related to the levels of ARNT, Tie-2, integrin subunit beta-3.
                                               Query Match
Best Local
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                                                                                                                                                                                     Sequence 17 BP; 7
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Score 12.8; DB 1; Length 17; Pred. No. 2.5e+02; 3; Mismatches 2; Indels
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2309 TATACACTCATCAGAG

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Gaps

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Query Match

0.9%;

Score 12.8;

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                                                                                                     AA23422 represent their corresponding target sequences. The ribozymes the invention are used for modulating the synthesis, expression and/or stability of an mRNA encoding angiogenic factor, especially ARNT, integrin subunit alpha-6, or Tie-2. They are especially used to treat cancer, diabetic retinopathy, age related macular degeneration (ARMD), inflammation, and arthritis, as well as meovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris, angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome, and other syndromes and diseases related to the levels of ARNT, Tie-2, and other syndromes and diseases related to the levels of ARNT, Tie-2,
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                                                                          subunit alpha-6,
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The present invention describes enzymatic nucleic acid molecules with CC RNA cleaving activity, which specifically cleave RNA encoded by an aryl CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3 CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene AAA16775 to CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT, CC and AAA17168 to AAA17560 and AAA17623 to AAA17684 represent their CC corresponding target sequences; AAA17625 to AAA18385 and AAA19087 to CC AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086 CC and AAA19155 to AAA21622 represent their corresponding target sequences; CC AAA19234 represent ribozyme sequence for Tie-2, and AAA19087 to CC AAA19235 to AAA2168 represent their corresponding target sequences; CC AAA19232 to AAA2168 represent their corresponding target sequences; CC AAA21696 to AAA2168 represent their corresponding target sequences; CC AAA21689 to AAA22475 and AAA23363 to AAA23142 represent ribozymes of CC AAA21689 to AAA22475 and AAA23263 to AAA23142 represent ribozymes of CC AAA21689 to AAA22475 and AAA23263 to AAA23142 represent ribozymes of the invention are used for modulating the synthesis, expression and/or citegrin subunit beta 3, and AAA22476 to AAA23162, AAA23143 to CAA21689 to AAA22475 and AAA23263 to AAA23142 represent ribozymes of the invention are used for modulating the synthesis, expression and/or citegrin subunit beta 3, integrin subunit alpha 6, or Tie-2. They are CC specially used to treat cancer, diabetic retinopathy, age related CC macular degeneration (ARMD), inflammation, and arthritis, as well as CC cangiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome, CC and other syndromes and diseases related to the levels of ARNT, Tie-2,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Integrin subunit beta 3 substrate sequence SEQ ID NO:6263.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAA23037;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAA23037 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (RIBO-) RIBOZYME PHARM INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Roberts E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              305pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 68.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Jarvis T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2324
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Coeshott C, McSwiggen JA;
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                                                                                                   RESULT 306
AAX16147/c
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                                                  Matches
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Best Local
                                                                                                                                  The present invention describes neurofibromatosis type 2 (NF2) transcript isoforms. NF2 polymucleotides can be used for diagnosing NF2 diseases, for inhibiting growth of tumours associated with NF2 mutations (including expression from cDNA introduced in gene therapy vectors) and to raise antibodies (useful as tumour targeting agents, since specific isoforms are often tumour-specific) and as immunoassay reagents for detecting NF2-expression products. NF2 is a tumour suppressor protein, and so has anticancer activity. The present sequence represents a PCR primer for mouse NF2, from an example of
                                                                                                 Sequence 17
                                                                                                                                                                                                                                                                 Example; Column 14; 45pp; English
                                                                                                                                                                                                                                                                                         Proteins from neurofibromatosis type 2 transcript isoforms for diagnosis or inhibition of tumours, and generation of a
                                                                                                                                                                                                                                                                                                                                                                                                           10-JAN-1994;
04-APR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; neurofibromatosis type 2; NF2; tumour suppressor; cancer; diagnosis; gene therapy; PCR primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mouse neurofibromatosis type 2 PCR primer 5m9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 17 BP; 6 A; 1 C; 7 G; 3 U; 0 other;
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                                                            Local
                       1579
                                                                                                                         present invention.
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                                                l Similarity
14; Conser
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                      TCCTCCATGAACTCCA 1594
TTCTCCATGTACTCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             standard; DNA;
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                                                                                                BP; 6 A; 1 C; 7 G; 3 T; 0 other;
                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                         94US-0179738.
96US-0628145.
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                                                          0.9%;
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                                                           Score 12.8;
Pred. No. 2.
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Pred. No. 2.
                                                  Mismatches
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2.5e+02;
                                                            2.5e+02;
                                                                       DB 1;
                                                                      Length 17;
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RESULT 307 AAV93558/c

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CC appable of modulating a process in a biological system. The method comprises: (a) introducing into the system a random library of nucleic comprises: (a) introducing into the system a random library of nucleic comprises: (a) introducing into the system a random library of nucleic comprises: (a) introducing into the system a random library of nucleic caid catalysts (NAC) having a substrate binding domain (SBD), comprising CC a random sequence, and a catalytic domain (CD), and (b) identifying NAC in systems where modulation has occurred and/or determining the sequence comprises the systems. Nucleic acid molecules comprise the systems of the systems. Such systems of the sequence comprise the systems of the systems of the present comprise the conducted seathful and catalytic activity, from the present convention, are used to modulate gene expression in plant and mammalian concells and to cleave target nucleic acid, particularly for treating constrains, non-hepatic ascites and infection. They may also be used to detect genetic drift and mutations in diseased cells and to determine content of the Raf gene, are used to treat concer, restenosis, concersion of the Raf gene, are used to treat concer, restenosis, concers stability against nuclease and activity. AAV90922 to AAV93877 condulating the expression of a Raf gene.
                 Query Match
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02-OCT-1997;
02-OCT-1997;
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09-MAY-1997;
09-JUN-1997;
03-JUL-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              delivery; screening; identification; synthesis; deprotection; purification; cancer; inflammation; psoriasis; non-hepatic ascites; infection; genetic drift; restenosis; rheumatoid arthritis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 177; Page 170; 259pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     triphosphates used as antiviral agents and synthons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying new catalytic nucleic acid that modulates selected processes - especially ribozymes that cleave Raf RNA for treating cancer, restenosis, and also new ribozymes and modified nucleoside
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          processes
cancer, r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Karpeisky
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target; substrate; catalyst; modulation; expression; Raf
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 Local
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 Similarity
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Reynolds M,
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                                                  BP; 5
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97US-0051718.
97US-0056808.
97US-0061321.
97US-0061324.
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0.9%;
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Matulic-Adamic J, McSwiggen JA;
Weedler D, Thompson J, Workman CT;
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5
               Score 12.8; DB 1;
 Pred. No.
                                                  U; 0 other;
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 2.5e+02;
             Length 17;
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Matches

14;

Conservative

0;

Mismatches

Indels

0

Gaps

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RESULT 308
AAV93511/c
ID AAV935
XX Human
XX Human
XX Human
XX Homo 8
XX W infect
XX Homo 8
XX W 12-NOV
XX 05-MAY
XX 05-MAY
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invention, are used to modulate gene expression in plant and mammalian cells and to cleave target nucleic acid, particularly for the present systemic diseases caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic ascites and infection. They may also be used to detect genetic drift and mutations in diseased cells and to determine c-raf RNA. Specifically NACs with RNA-cleaving activity that modulate expression of the Raf gene, are used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or generally any condition associated with the level of c-raf. Introduction of sugar/phosphate modifications increases stability against nuclease and activity. AAV99922 to AAV93877 represent NACs that can be used in the method, specifically for modulating the expression of a Raf cene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   09-MAY-1997;
09-JUN-1997;
03-JUL-1997;
22-AUG-1997;
02-OCT-1997;
02-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                 A method has been developed for the identification of a nucleic acid capable of modulating a process in a biological system. The method comprises: (a) introducing into the system a random library of nucleic acid catalysts (NAC) having a substrate binding domain (SBD), comprising a random sequence, and a catalytic domain (CD); and (b) identifying NAC in systems where modulation has occurred and/or determining the sequence of at least part of the SBDs in such systems. Nucleic acid molecules with endonuclease activity and catalytic activity, from the present with the systems of the SBDs in such systems.
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Karpeisky /
Parry T, I
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 177; Page 169; 259pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying new catalytic nucleic acid that modulates selected processes - especially ribozymes that cleave Raf RNA for treating cancer, restenosis, and also new ribozymes and modified nucleoside
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-FEB-1999
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97US-0056808.
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, Matulic-Adamic J, McSwiggen JA;
Sweedler D, Thompson J, Workman
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Best Local Simi
Matches 14;
                                                                                                                                                                                                                                                                                                  Karpeisky A
Parry T, Re
capable of modulating a process in a biological system. The method comprises: (a) introducing into the system a random library of nucleic acid catalysts (NAC) having a substrate binding domain (SBD), comprising a random sequence, and a catalytic domain (CD); and (b) identifying NAC in systems where modulation has occurred and/or determining the sequence of at least part of the SBDs in such systems. Nucleic acid molecules with endonuclease activity and catalytic activity, from the present invention, are used to modulate gene expression in plant and mammalian cells and to cleave target nucleic acid, particularly for treating systemic diseases caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic ascites and infection. They may also be used to detect genetic drift and mutations in diseased cells and to determine
                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-DEC-1997;
09-MAY-1997;
09-JUN-1997;
                                                                                                                                                                                                                                                                                      WPI;
                                                                                                                                                                                      Claim 177; Page 146; 259pp;
                                                                                                                                                                                                               Identifying new catalytic nucleic acid that modulates selected processes - especially ribozymes that cleave Raf RNA for treating cancer, restenosis, and also new ribozymes and modified nucleoside triphosphates used as antiviral agents and synthons
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22-AUG-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            c-raf; A-raf; B-raf; hammerhead ribozyme;
                                                                                                                                                                                                                                                                                                                                                                    RIBOZYME PHARM INC.
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Reynolds M,
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, Kisich K, Matulic-Adamic J, N
eynolds M, Sweedler D, Thompson
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97US-0061324.
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97US-0049002
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                                                                                                                                                            developed for the identification of a nucleic
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ion; Raf
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Matches
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Parry T,
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                                                                                                                                                                                                                             Identifying new catalytic nucleic acid that modulates selected processes - especially ribozymes that cleave Raf RNA for treating cancer, restenosis, and also new ribozymes and modified nucleoside triphosphates used as antiviral agents and synthons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       delivery; screening; identification; synthesis; deprotection; purification; cancer; inflammation; psoriasis; non-hepatic ascites; infection; genetic drift; restenosis; rheumatoid arthritis; ss.
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capable of modulating a process in a biological system. The method comprises: (a) introducing into the system a random library of nucleic acid catalysts (NAC) having a substrate binding domain (SBD), comprising a random sequence, and a catalytic domain (CD); and (b) identifying NAC

been developed for the identification of a nucleic acid

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                                                                                                                                                                                                                                                                       Beaudry A, Beigelman
Karpeisky A, Kisich J
Parry T, Reynolds M,
                                                         Identifying new catalytic nucleic acid that modulates selected processes - especially ribozymes that cleave Raf RNA for treating cancer, restenosis, and also new ribozymes and modified nucleoside triphosphates used as antiviral agents and synthons
                                                                                                                                                                                                                    WPI; 1999-009494/01
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02-OCT-1997;
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09-MAY-1997;
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, Kisich K, Matulic-Adamic J, McSwiggen JA,
eynolds M, Sweedler D, Thompson J, Workman
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97US-0061321.
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97US-0046059.
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Pred. No. 2.5e+02;
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Claim 177; Page 148; 259pp; English

WPI; 1999-009494/01

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09-MAY-1997;
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                                                        Beaudry A, Beigelman
Karpeisky A, Kisich
Parry T, Reynolds M,
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, Kisich K, Matulic-Adamic J, McSwiggen JA;
eynolds M, Sweedler D, Thompson J, Workman
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Pred. No. 2.5e+02;
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RESULT 313
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Best Local S
Matches 10
                                                        19-DEC-1997;
09-MAY-1997;
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Pred. No. 2
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RESULT 314
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Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         with endonuclease activity and catalytic activity, from the present invention, are used to modulate gene expression in plant and mammalian cells and to cleave target nucleic acid, particularly for treating systemic diseases caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hapatic ascites and infection. They may also be used to detect genetic drift and mutations in diseased cells and to determine c-raf RNA. Specifically NACs with RNA-cleaving activity that modulate expression of the Raf gene, are used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or generally any condition associated with the level of c-raf. Introduction of sugar/phosphate modifications increases stability against nuclease and activity. AAV99922 to AAV93877 represent NACs that can be used in the method, specifically for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A method has been developed for the identification of a nucleic acid capable of modulating a process in a biological system. The method comprises: (a) introducing into the system a random library of nucleic acid catalysts (NAC) having a substrate binding domain (SBD), comprising a random sequence, and a catalytic domain (CD); and (b) identifying NAC in systems where modulation has occurred and/or determining the sequence of at least part of the SBDs in such systems. Nucleic acid molecules
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Identifying new catalytic nucleic acid that modulates selected processes - especially ribozymes that cleave Raf RNA for treating cancer, restenosis, and also new ribozymes and modified nucleoside
                                                                                                                                                                                                                              Ribozyme; erythropoietin; granulocyte colony stimulating
                                                                                                                                                                                                                                                                                                                                                         AAF06118 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
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Karpeisky A,
                                                          12-APR-1999;
                                                                                       11-APR-2000;
                                                                                                                        19-OCT-2000
                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                 interteron
                                                                                                                                                                                                                                                                                               16-FEB-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (RIBO-) RIBOZYME PHARM INC
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                           RIBOZYME PHARM INC.
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                                                                                                                                                                                                                 alpha;
                                                                                                                                                                                                                                                             ribozyme substrate
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, Kisich K, Matulic-Adamic J,
eynolds M, Sweedler D, Thompson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                         2000WO-US09721
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                                                          99US-0129390.
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Pred. No. 2
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Blatt L,

Zwick M,

Pavco P,

McSwiggen

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AAF07173
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to enzymatic and antisense nucleic acid molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription factor gene, IRF-2 and/or the CAPATT Displacement protein (CDP). Inhibition of the repressors removes prevents inhibition (and consequently increases expression of) genes involved the production of crythropoletin, granulocyte colony stimulating fact
                                     molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EAR3/CODP-TF-1, the GATA transcription factor gene, IRF-2 and/or the CAATT Displacement protein (CDP). Inhibition of the repressors removes prevents inhibition (and consequently increases expression of) genes involved inhibition (and consequently increases expression of)
                                                                                 The present invention relates to enzymatic and antisense nucleic acid molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA
                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Enzymatic and antisense nucleic acid inhibition of repressor genes, useful for producing e.g. granulocyte colony stimulating factor protein, interferon alpha and erythropoletin -
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                           the
                                                                                                                                              Claim
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                                                                                                                                                                                                                                                                                                                                                   11-APR-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ribozyme; erythropoietin; granulocyte colony stimulating factor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hammerhead ribozyme substrate #3430.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein and interferon alpha.
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                                                                                                                                                                                                                                                                                                                        12-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     interferon alpha;
                                                                                                                                                                                                                                                                                           (RIBO-)
                        production of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1758 GGTCATGGCGGAAGCA 1773
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGTCATGGAGGAAGAA 1
                                                                                                                                                                        and antisense nucleic acid inhibition of repressor genes, r producing e.g. granulocyte colony stimulating factor interferon alpha and erythropoietin -
                                                                                                                                             Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Page 123; 164pp; English
                                                                                                                                                                                                                                                              Zwick M,
            ion of erythropoietin, granulocyte interferon alpha.
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                                                                                                                                                                                                                                                              Pavco P,
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                                                                                                                                                                                                                                                              McSwiggen
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2.5e+02;
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                         colony stimulating
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RESULT 316
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                                                                        The present invention describes nucleic acids (A) that interact stably CC with a target sequence and contain at least one phosphoro(di)thioate CC link, having endonuclease activity. (A), and more generally any CC catalytic nucleic acid (A') that modulates expression of the oestrogen receptor gene, are used to treat cancer (particularly of breast or CC endometrium), in vivo or by transforming cells ex vivo and implanting CC treated cells, or for other conditions associated with levels of CC coestrogen receptor. Because of the high selectivity for targeted RNA, (A) CC can also be used to correlate inhibition of gene expression with CC alterations in phenotype, particularly for identification of therapeutic targets, and as research reagents (for RNA, in the same way that CC restriction endonucleases are used with DNA). The combination of CC modifications in (A) improves resistance to nucleases, binding affinity CC and/or activity. AAA23503 to AAA24747 represent oestrogen receptor corresponding target sequences. AAA2503 to AAA26107 to AAA26218 represent their corresponding target sequences. AAA26210 to AAA26211 represent cother ribozyme sequences and antisense oligonucleotides used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New nucleic acids that interact,
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23-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oestrogen receptor; c-raf; k-ras; bcl-2; ribozyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Oestrogen receptor hammerhead ribozyme target sequence SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                used to treat cancer
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Zwick M, Jar
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is T, Woolf T,
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Haeberli
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                         CC carelytic nucleic acid (A') that modulates expression of the ostrogen CC carelytic nucleic acid (A') that modulates expression of the ostrogen CC receptor gene, are used to treat cancer (particularly of breast or CC endometrium), in vivo or by transforming cells ex vivo and implanting CC treated cells, or for other conditions associated with levels of CC cestrogen receptor. Because of the high selectivity for targeted RNA, (A) CC can also be used to correlate inhibition of gene expression with CC alterations in phenotype, particularly for identification of therapeutic targets, and as research reagents (for RNA, in the same way that CC targets, and as research reagents (for RNA, in the same way that CC targets, and as research reagents (for RNA, in the same way that CC targets, and AA23503 to AAA24747 represent ostrogen receptor CC modifications in (A) improves resistance to nucleases, binding affinity CC and/or activity. AAA23503 to AAA24747 represent ostrogen receptor CC hammerhead ribozyme sequences, and AAA2478 to AAA2502 represent their CC corresponding target sequences, AAA2593 to AAA26105 represent their CC receptor hairpin ribozyme sequences, AAA26219 to AAA26218 represent CC their corresponding target sequences, AAA26219 to AAA26271 represent CC other ribozyme sequences and AAA2619 to AAA26271 represent CC corresponding target sequences, AAA26219 to AAA26271 represent CC other ribozyme sequences and antisense oligonucleotides used in the CC exemplification of the present invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 77; Page 81; 148pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sequences, used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New nucleic acids that interact, sequences, used to treat cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2000-013248/01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Thompson JD, Reynolds M,
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23-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                          present invention describes nucleic acids (A) that interact stably
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98US-0103636.
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Jarvis T, Woolf T,
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Pred. No. 2.5e+02;
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Haeberli
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Score 12.8; DB 1; Pred. No. 2.5e+02;

Length 17;

Matches Query Match Best Local

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Similarity

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                                            can also be used to correlate inhibition of gene expression with alterations in phenotype, particularly for identification of therapeutic targets, and as research reagents (for RNA, in the same way that restriction endonucleases are used with DNA). The combination of modifications in (A) improves resistance to nucleases, binding affinity and/or activity. AAA23503 to AAA24747 represent oestrogen receptor hammerhead ribozyme sequences, and AAA24748 to AAA25932 represent their corresponding target sequences. AAA2593 to AAA26105 represent oestrogen receptor harpin ribozyme sequences. AAA2593 to AAA26118 represent oestrogen receptor harpin ribozyme sequences. AAA2619 to AAA26118 represent their corresponding target sequences. AAA2619 to AAA26218 represent their ribozyme sequences. AAA2619 to AAA26218 represent their ribozyme sequences. AAA2619 to AAA26217 represent their ribozyme sequences. AAA2619 to AAA26218 represent their ribozyme sequences.
                                                                                                                                                                                                                                                      with a target sequence and contain at least one phosphoro(di)thioate link, having endonuclease activity. (A), and more generally any catalytic nucleic acid (A') that modulates expression of the oestrogen receptor gene, are used to treat cancer (particularly of breast or endometrium), in vivo or by transforming cells ex vivo and implanting treated cells, or for other conditions associated with levels of
Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                 New nucleic acids that interact,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2000-013248/01.
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Reynolds M,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Oestrogen receptor hammerhead ribozyme target sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                sequences, used to treat cancer
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                                                                                                                                                                                                                                                                                                                                                            present invention describes nucleic acids (A) that interact stably
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                                                                                                                                                                                                                                                                                                                                                                                            77; Page 81; 148pp; English
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                                   the present invention.
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vis T, Woolf T,
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Haeberli P;
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RESULT 319
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27-MAR-2000;
01-JUN-2000;
30-OCT-2000;
                                              the following genes: adenosine deaminase, p53, beta-globin, retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A (CDKN2A), APC, Factor V, Factor VIII, Factor IX, haemoglobin alpha locus 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6, apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase (UGT1), amyloid precursor protein (APC), presentlin-1 (PSEN1) and presentlin-2 (PSEN2). These can be used in the gene therapy of diseases such as cancer, adenosine deaminase deficiency, cystic fibrosis, haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia, hlzheimer's disease, melanoma, adenomatous polyposis of the colon and various syndromes. The present sequence is one of the gene correcting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin; retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V; cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2; adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis; haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE; mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR; familial hypercholesterolaemia; UGT1; syndrome; APP, PSRU1; antisense; UDP-glucuronosyltransferase; amyloid precursor protein; presentlin-1; Alzheimer; disease; cytostatic; antisickling; antianaemic; haemostatic;
                                                                                                                                                                                                                                                                                                                                                                                         Oligonucleotide for targeted alterations of genetic sequences and for treating cystic fibrosis, comprises at least one mismatch and chemical modification -
                                  various syndromes. The poligonucleotides of the
                                                                                                                                                                                                                                                        The present invention provides single-stranded oligonucleotides which be used for the targeted alteration of genomic sequences, where the oligonucleotide has at least one mismatch compared with the genomic sequence to be altered. In particular, these sequences are directed at
                                                                                                                                                                                                                                                                                                                                                       Claim 7;
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Query Match Best Local & Matches

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                                                                                                              The present invention provides single-stranded oligonucleotides which can to be used for the targeted alteration of genomic sequences, where the coligonucleotide has at least one mismatch compared with the genomic sequence to be altered. In particular, these sequences are directed at the following genes: adenosine deaminase, p53, beta-globin, retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A (CDKN2A), APC, Pactor V, Factor VIII, Factor IX, haemoglobin alpha locus (CDKN2A), APC, Pactor V, Factor VIII, WSH2, WSH6, applipoprotein & (APOE), LDL receptor (LDLE), UDP-glucuronosyltransferase (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases such as cancer, adenomine deaminase deficiency, cystic fibrosis, CC such as cancer, adenomine deaminase deficiency, cystic fibrosis, CC such as cancer, adenomine deaminase deficiency, cystic fibrosis, CC such as cancer, adenoma, adenomatous polyposis of the colon and Alzheimer's disease, melanoma, adenomatous polyposis of the colon and co
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                                                                                            Alzheimer's disease, melanoma, adenomatous various syndromes. The present sequence is
                                                                                               such as cancer, adenosine deaminase deficiency, cystic fibrosis, haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia, Alzheimer's disease, melanoma, adenomatous polyposis of the colon and various syndromes. The present sequence is one of the gene correcting
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                                                                                     The present invention provides single-stranded oligonucleotides which can CC be used for the targeted alteration of genomic sequences, where the CC oligonucleotide has at least one mismatch compared with the genomic Sequence to be altered. In particular, these sequences are directed at CC sequence to be altered. In particular, these sequences are directed at CC retinoblastoma, BRCA1, BRCA2, CFTR, Cyclin-dependent kinase inhibitor 2A CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus 2 (HBA2), MSH2, MSH6, appolipoprotein & (APOB), LDL receptor (LDLB), UDP-glucuronosyltransferase CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases CC such as cancer, adenosine deaminase deficiency, cystic fibrosis, CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia, CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and CC various syndromes. The present sequence is one of the gene correcting
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2000US-208538P.
2000US-244989P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ŏ.
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RESULT 323
AAH94651
AAH9466XX
AC AAH946
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AC AAH946
XX
AC Human
XX
Human
XX
Human
XX
Homo |
XX
OS Homo |
YX
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RESULT 324
AAH95254/c
ID AAH952
XX
AC AAH952
XX
DT 09-OCT
XX
DE Human
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention provides nucleic acid molecules capable of downregulating the expression of the human checkpoint kinase-1 (Chkl) gene. These may be antisense or ribozyme sequences, and are useful in the treatment of diseases associated with conditions affected by Chkl levels, including cancer. The present sequence is an oligonucleotide described in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel nucleic acid molecule e.g., ribozymes or antisense nucleic acid molecules, which downregulates expression of a checkpoint kinase-1 gene, useful for treating colorectal, lung, breast or prostate cancer.
  Human Chkl ribozyme substrate
                                                   09-OCT-2001
                                                                                                                                                    AAH95254 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 17 BP; 6 A; 4 C; 2 G; 5 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Fattaey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-FEB-2000; 2000US-0179983
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RNA cleavage; cano
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local
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10; Conserv
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FATTAEY A R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                         AAAAUCUCAGACUUUG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Page 53; 115pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCCAAATTGGGTGTTT 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 kinase-1; Chk1; antisense; ribozyme; gene therapy;
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Pred. No. 2.5e+02;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                       Score 12.8; DB
Pred. No. 2.5e+1
4; Mismatches
  SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ID NO:
                                                                                                                                                                                                                                                                                                                                                                  8; L.
. 2.5e+02;
2;
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RESULT 325
AAH95836
ID AAH958
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention provides nucleic acid molecules capable of downregulating the expression of the human checkpoint kinase-1 (Chk1) gene. These may be antisense or ribozyme sequences, and are useful in the treatment of diseases associated with conditions affected by Chk1 levels, including cancer. The present sequence is an oligonucleotide described in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel nucleic acid molecule e.g., ribozymes or antisense nucleic acid molecules, which downregulates expression of a checkpoint kinase-1 gene, useful for treating colorectal, lung, breast or prostate cancers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; checkpoint kinase-1; Chk1; antisense; ribozyme; RNA cleavage; cancer; ss.
                                                        03-FEB-2000; 2000US-0179983
                                                                                                     09-AUG-2001.
                                                                                                                            WO200157206-A2
                                                                                                                                                  Homo sapiens.
                                                                                                                                                                        Human; checkpoint kinase-1; Chkl;
RNA cleavage; cancer; ss.
                                                                                                                                                                                                          Human Chkl ribozyme substrate SEQ
                                                                                                                                                                                                                                 09-OCT-2001 (first entry)
                                                                                                                                                                                                                                                       AAH95836;
                                                                                                                                                                                                                                                                             AAH95836 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 4; Page 66; 115pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               03-FEB-2000; 2000US-0179983
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                                                                              02-FEB-2001; 2001WO-US03504
                                                                                                                                                                       RNA cleavage;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (RIBO-) RIBOZYME PHARM INC
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                     RIBOZYME PHARM INC. FATTAEY A R.
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                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                             RNA;
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Pred. No. 2.5e+02;
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                                                                                                                                                                                   antisense; ribozyme; gene therapy;
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                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
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Holman

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RESULT 326
ABK00843/c
ID ABK008
XX ABK008
XX ABK008
XX Human
XX Human;
XW Cerebx
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic; cerebroprotective; nootropic; neuroprotective; antiparkinsonian; muscular; CD20; neurite growth inhibitor gene; NOG0; hammerhead ribozyme; DNAzyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia; B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia; human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma; MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   downregulating the expression of the human checkpoint kinase-1 (Chk1) gene. These may be antisense or ribozyme sequences, and are useful in the treatment of diseases associated with conditions affected by Chk1 levels, including cancer. The present sequence is an oligonucleotide described in the exemplification of the invention.
                                                                                                                                                                                                                                                         11-FEB-2000; 2000US-181797P.
28-FEB-2000; 2000US-185516P.
06-MAR-2000; 2000US-187128P.
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                          WPI; 2001-607195/69
                                                                                                                                                     (RIBO-)
(BLAT/)
(MCSW/)
                                                                                                                                                                                                                                                                                                                                                              09-FEB-2001; 2001WO-US04273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          inflammatory arthropathy; central nervous system injury; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                    16-AUG-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Creutzteldt-Jakob
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       chemotherapy-induced neuropathy; amyotrophic lateral sclerosis;
Parkinson's disease; ataxia; Huntington's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human NOGO Inozyme #113.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABK00843 standard; RNA; 17 BP
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                                                                                                                                                                              RIBOZYME PHARM INC
BLATT L.
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                                                                                                                             CHOWRIRA B M.
                                                                                                                                                     MCSWIGGEN J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAAUCUCAGACUUUGG 16
                                                                        McSwiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             disease; muscular dystrophy; neurodegenerative disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; 4 C; 3 G; 5 U; 0 other;
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                                                                             Chowrira
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 12.8; DB Pred. No. 2.5e+
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Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurity growth inhibitor gene useful for treating, e.g., lymphoma, leukemia and central nervous system injury or neurite leukemia,

79; 200pp; English

The invention relates to a nucleic acid molecule which down regulates expression of a CD20 gene and a nucleic acid molecule which down CC regulates expression of a neurite growth inhibitor gene (NOGO).

CC The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a CC DNAzyme) an Inozyme (an endolytic nucleic acids (e.g. a ribozyme or a CC DNAzyme) an Inozyme (an endolytic nucleic acid cleaving RNA with a NYN molecule (cleaving RNA with a YGY motif). The CD20-targetting nucleic acid is used CC (cleaving RNA with a YGY motif). The CD20-targetting nucleic acid is used CC contacted with a Cell to reduce (cleaving RNA with a YGY motif). The CD20-targetting nucleic acid is used to cleave RNA of CD20 in the presence of a divalent cation that is preferably Mg^2+ Furthermore, it may be contacted with a cell to reduce CC contacted with the level of CD20. The treatment may further comprise the use of one or more therapies. In particular, the CD20 targetting condition cassociated with the level of CD20. The treatment may further comprise the immunocytoma (IMC), small B-cell lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular NHI, lymphocytic leukaemia, B-cell lymphoma, low-grade or follicular NHI, lymphocytic leukaemia, HIV (human CC immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune CC immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune CC divalent cation that is preferably Mg^2+. Furthermore, the nucleic acid contacted with a cell to reduce NCO gene in the presence of a CC divalent cation that is preferably Mg^2+. Furthermore, the cell and CC may be contacted with a cell to reduce NCO activity of the cell and CC may be contacted with a cell to reduce NCO activity of the cell and CC may be contacted with a cell to reduce NCO activity of the cell and CC may be contacted with a cell to reduce NCO activity of the cell and CC may be contacted with a cell to reduce NCO activity of the cell acid may be used to treat contacted with a cell to treat contacted with a cell to treat selector disease, muscular dystrophy, and/or other neurodegenerative states which respond to the modulation of NOGO expression. The present sequence is an inozyme of the invention. disease

17 BP; 1 A; 8 C; 7 G; 1 U; 0 other;

Matches Query Match Local 1651 CTGGCAGGGGTCTCCG 1666 l Similarity 14; Conser Conservative 0.9%; 0; Score 12.8; DB 1; Pred. No. 2.5e+02; Mismatches DB 1; Length 17; Indels 0 Gaps 0

밁 ABK00845 standard; RNA; 17 17 CCGGCAGGGGTCCCCG N

Human NOGO Inozyme #115

12-MAR-2002

(first entry

RESULT 327
ABKO0845/c
ID ABKO08
XX ABKO08
XX II 2-MAR
XX II 2-MAR
XX Human
XX Human Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic; cerebroprotective; nootropic; neuroprotective; antiparkinsonian; muscular; CD20; neurite growth inhibitor gene; NOG0; hammerhead ribozyme; DNAzyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia; b-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia; human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma; NCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia; inflammatory arthropathy; central nervous system injury; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis; chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS; parkinson's disease; ataxia; Huntington's disease; Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease

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                                                                                                                                                                                                                                                                                                            CC DNazyme) an Inozyme (an endolytic nucleic actid cleaving Name Note the CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN molecule CC (cleaving RNA with a YGY motif). The CD20-targetting nucleic acid is used to cleave RNA of CD20 in the presence of a divalent cation that is CC preferably Mg^2+. Furthermore, it may be contacted with a cell to reduce CC CD20 activity of the cell and treat a patient having a condition CC associated with the level of CD20. The treatment may further comprise the CC use of one or more therapies. In particular, the CD20 targetting CC lymphoma, low-grade or follicular NHL, lymphoma, leukaemia, B-cell low-grade or follicular NHL, lymphocytic leukaemia, HIV (human CC immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune CC thrombocytopaenia, and inflammatory arthropathy. The NOGO-targetting CC divalent cation that is preferably Mg^2+. Furthermore, the nucleic acid may be contacted with a cell to reduce NOGO ene in the presence of a CC divalent cation that is preferably Mg^2+. Furthermore, the nucleic acid curacted with a cell to reduce NOGO ene in the presence of a CC divalent cation that is preferably Mg^2+. Furthermore, the nucleic acid curactent may further comprise the use of one or more therapies.

CC In particular, the NOGO-targetting nucleic acid may be used to treat central nervous system (CNS) injury and cerebrovascular accident (CVA, C chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (MS), C chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), C chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), C chemotherapy distance, ataxia, Huntington's disease, Creutzfeldt-Jakob CC disease, muscular dystrophy, and/or other neurodegenerative disease curactive disease states which respond to the modulation of NOGO expression. The
                                                                                                                                Matches
                                                                                                                                                              Query Match
Best Local
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28-FEB-2000;
06-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a nucleic acid molecule which down regulates expression of a CD20 gene and a nucleic acid molecule which down regulates expression of a neurite growth inhibitor gene (NGGO). The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a property of the nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a property of the nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a property of the nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a property of the nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a property of the nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a property of the nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a property of the nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a property of the nucleic acids may be enzymatic nucleic acids (e.g. a ribozymatic nucleic acids may be enzymatic nucleic acids (e.g. a ribozymatic nucleic acids may be enzymatic nucleic acids may be enzym
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(BLAT/)
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Synthetic.
                                                                                                                                                                                                                                                             Sequence 17
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                                                                1650 GCTGGCAGGGGTCTCC 1665
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BLATT L.
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                                                                                                                                                                  Similarity
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   GCCGGCAGGGGTCCCC
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; 2000US-185516P.
; 2000US-187128P.
                                                                                                                                                                                                                                                             BP; 1 A; 8 C; 7 G; 1 U; 0 other;
                                                                                                                                Conservative
                                                                                                                                                           0.9%;
87.5%;
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                                                                                                                                                                  Score 12.8; DB 1;
Pred. No. 2.5e+02;
                                                                                                                                Mismatches
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RESULT 328
ABK02092/C
ID ABK020
XX Carebz
KW Cerebz
KW Cerebz
KW Cerebz
KW Creutz
XX Chemot KW Chemot Chemot
The invention relates to a nucleic acid molecule which down regulates cexpression of a CD20 gene and a nucleic acid molecule which down CC regulates expression of a neurite growth inhibitor gene (NCOO).

CC The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a CC DNazyme) an Inozyme (an endolytic nucleic acids (e.g. a ribozyme or a CC DNazyme) an NCH motif), a G-cleaver (cleaving RNA with a NYN CC motif) pr an amberzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA with a NYN CC (cleaving RNA with a YYN motif). The CD20-targetting nucleic acid is used CC preferably Mg^2+. Furthermore, it may be contacted with a cell to reduce CC CD20 activity of the cell and treat a patient having a condition CC associated with the level of CD20. The treatment may further comprise the CC use of one or more therapies. In particular, the CD20 targetting cC lymphoma, low-grade or follicular NHL, lymphoma, levkaemia, B-cell (lymphoma, low-grade or follicular NHL, lymphocytic leukaemia, HIV (human CC immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune CC mucleic acid is used to cleave RNA of the NOGO gene in the presence of a cleave RNA of the NOGO-targetting concleit acid is used to cleave RNA of the NOGO gene in the presence of a cleave RNA of the NOGO gene in the presence of a cleave RNA of the NOGO gene in the presence of a cleave RNA of the NOGO gene in the presence of a cleave RNA of the NOGO gene in the presence of a cleave RNA of the NOGO gene in the presence of a cleave RNA of the NOGO gene in the presence of a cleave RNA of the NOGO gene in the presence of a cleave RNA of the NOGO gene in the presence of a cleave RNA of the NOGO gene in the presence of a cleave RNA of the NOGO gene in the presence of a cleave RNA of the NOGO gene in the presence of a cleave RNA of the NOGO gene in the presence of a cleave RNA of the NOGO gene in the cleave RNA o
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28-FEB-2000;
06-MAR-2000;
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(BLAT/)
(MCSW/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia,
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; 2000US-185516P.
; 2000US-187128P.
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RESULT 329
ABK02103/c
ID ABK021
XX ABK021
XX ABK021
XX ABK021
XX ABK021
XX LIFE
DT 12-MAR
XX Human;
XW Human;
XW Cerebx
XW Gerebx
XW Gerebx
XW Gerebx
XW Homon G
XW Inflam
XW Inflam
XW Creutz
XX Parkin
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Matches
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28-FEB-2000;
06-MAR-2000;
constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia and central nervous system inimm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   divalent cation that is preferably Mg^2^+. Furthermore, the nucleic acid may be contacted with a cell to reduce NOGO activity of the cell and treat a patient having a condition associated with the level of NOGO. The treatment may further comprise the use of one or more therapies. In particular, the NOGO-targetting nucleic acid may be used to treat central nervous system (CNS) injury and cerebrovascular accident (CVA, stroke). Alzheimer's disease, dementia, multiple sclerosis (MS), chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob disease, muscular dystrophy, and/or other neurodegenerative disease states which respond to the modulation of NOGO expression. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic; cerebroprotective; nootropic; neuroprotective; antiparkinsonian; muscular; CD20; neurite growth inhibitor gene; NCG0; hammerhead ribozyme; DNAzyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia; B-cell lymphoma; non-Hodgkin's lymphoma; NHH; lymphocytic leukaemia; human immunodeficiency virus; HIV associated NHH; mantle-cell lymphoma; MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             chemotherapy induced neuropathy; amyotrophic lateral sclerosis; ALS; Parkinson's disease; ataxia; Huntington's disease; Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease
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BLATT L.
MCSWIGGEN J.
CHOWRIRA B M.
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                                                                                                                                                                                                           McSwiggen J,
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; 2000US-185516P.
; 2000US-187128P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2001WO-US04273.
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Pred. No. 2.
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.5e+02;
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The invention relates to a nucleic acid molecule which down regulates expression of a CD20 gene and a nucleic acid molecule which down cereprocession of a neurite growth inhibitor gene (NOGO).

CC The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a CDNAzyme) an Inozyme (an endolytic nucleic acids (e.g. a ribozyme or a CDNAzyme) an Inozyme (an endolytic nucleic acid cleaving an RNA molecule concepts of an an RNA molecule concepts of the collary 
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     17 BP; 1
A; 10 C;
     5 G;
     1 U;
     0 other;
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닭 5 Query Match Best Local S Matches 14 1653 GGCAGGGGTCTCCGAG 1668 17 14; Similarity GGCAGGGGTCCCCGGG Conservative 0.9%; N 0; Score 12.8; Pred. No. 2 Mismatches 2.5e+02; DB 1; 2: Length 17; Indels 0, Gaps 0

ARESULT 330
ABK02341/C
ID ABK023
XX ABK023
XX ABK023
XX T12-MAR
XX Human
XX Grebr
XW MCL; 1
XW Inflam
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XW ABK02341; ABK02341 standard; RNA; 17 12-MAR-2002 (first entry) ВP

Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic; cerebroprotective; noctropic; neuroprotective; antiparkinsonian; muscular; CD20; neurite growth inhibitor gene; NOG0; hammerhead ribozyme; DNAzyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia; human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma; MCL; immunocytoma; MC; immunocytoma; inchibitoma; inch

Synthetic Homo sapiens

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                                                                                                                      The invention relates to a nucleic acid molecule which down regulates CC expression of a CD20 gene and a nucleic acid molecule which down compression of a neurite growth inhibitor gene (MOGO).

CC The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a CC DNAzyme) an Inozyme (an endolytic nucleic acids (e.g. a ribozyme or a CC DNAzyme) an Inozyme (an endolytic nucleic acid cleaving an RNA molecule possessing an NCH motif), a following RNA with a NCH triplet), a zinzyme (cleaving RNA with a NCH triplet), a zinzyme (cleaver RNA of CD20 in the presence of a divalent cation that is compressed to cleave RNA of CD20 in the presence of a divalent cation that is consisted with the level of CD20. The treatment may further comprise the CD20 activity of the cell and treat a patient having a condition of immunodeficience with the level of CD20. The treatment may further comprise the clamboutycoma (IMC), small B-cell lymphocytic leukaemia, HIV (human cleic acid is used to cleave RNA of the NOGO gene in the presence of a civalent cation that is preferably Mg 2 +. Furthermore, the nucleic acid creat a patient having a condition associated with the level of NOGO. The creatment may further comprise the use of one or more therapies.

CC immunocytcoma (IMC), small B-cell lymphocytic lymphoma (NHL), bulky (CC divalent cation that is preferably Mg 2 +. Furthermore, the nucleic acid may be contacted with a cell to reduce NOGO activity of the cell and treat a patient having a condition associated with the level of NOGO. The creatment may further comprise the use of one or more therapies.

CC immunocytcoma (See MC), injury and cerebrovascular accident (CVA, stroke), Alzhimer's disease, dementia, multiple sclerosis (MS), (CVA, cerebral sclerosis (MS), and/or other neurodegenerative disease contactes which respond to the modulation of NOGO expression. The contacts and interest sequencies.
                                             Matches
                                                               Query Match
Best Local (
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28-FEB-2000;
06-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nucleic acid molecules, e.g., enzymatic nucleic acids and constructs, which down regulate expression of a CD20 gene constructs, which growth inhibitor gene useful for treating, e.g., lymphoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (RIBO-)
(BLAT/)
(MCSW/)
                                                                                                                      Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       and central nervous system injury
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-607195/69
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                                                                 Similarity
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       GTCCAGCTCCTCCATG
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; 2000US-185516P.
; 2000US-187128P.
                                                                                                                      BP; 5
                                             Conservative
                                                                                                                                                           18
                                                                                                                    A; 5
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                                                               0.9%;
87.5%;
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         1587
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                                             0;
                                                               Score 12.8;
Pred. No. 2.
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                                             Mismatches
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                                                                                                                                                           molecule of the
                                                                                                                      other;
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                                                                                1:
                                                                              Length 17;
                                                                                                                                                           invention.
                                             Indels
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l, leukemia,
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                                             Gaps
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RESULT 331 ABK02926/c ID ABK029

ABK02926 standard; RNA; 17

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The invention relates to a nucleic acid molecule which down regulates corpression of a CD20 gene and a nucleic acid molecule which down CC regulates expression of a neurite growth inhibitor gene (NGO).

CC The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a CDNazyme) an Inozyme (an endolyric nucleic acids (e.g. a ribozyme or a CDNazyme) an Inozyme (an endolyric nucleic acids cleaving an RNA molecule contif), a G-cleaver (cleaving RNA with a NYN CC motif) pr an amberzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA with a NYN The CD20-targetting nucleic acid is used to cleave RNA of CD20 in the presence of a divalent cation that is compared to cleave RNA of CD20 in the presence of a divalent cation that is compared with the level of CD20. The treatment may further comprise the use of one or more therapies. In particular, the CD20 targetting completic acid may be used to treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular NGL, lymphoma, leukaemia, HIV (human comparide or follicular NGL), bulky compared continuar NGL, small B-cell lymphocytic leukaemia, HIV (human continuar NGC), small B-cell lymphoma (NGC), small B-cell lymphoma (NGC), small B-cell lymphocytic lymphoma, leukaemia, HIV (human continuar NGC) are an a patient having a condition associated with the presence of a continuar continuar modelicated with a cell and continuar of the nucleic acid continuar modelicated with the level of NGCO. The treatment may further comprise the use of one or more therapies.
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28-FEB-2000;
06-MAR-2000;
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(BLAT/)
(MCSW/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 30; Page 143; 200pp; English.
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BLATT L.
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; 2000US-185516P.
; 2000US-187128P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               In particular, the NÓGO-targetting nucleic acid may be used to treat central nervous system (CNS) injury and cerebrovascular accident (CVA, stroke). Alzheimer's disease, dementia, multiple sclerosis (MS), chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob disease, muscular dystrophy, and/or other neurodegenerative disease states which respond to the modulation of NGGO expression. The
                                                                       Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia,
                                                                                                                                                                                                                       (RIBO-)
(BLAT/)
(MCSW/)
                            Claim 30; Page 149; 200pp; English
                                                                                                                                           WPI; 2001-607195/69.
                                                                                                                                                                         Blatt L,
                                                                                                                                                                                                                                                                                     11-FEB-2000; 2000US-181797P
28-FEB-2000; 2000US-185516P
06-MAR-2000; 2000US-187128P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human CD20 Inozyme #222.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABK03271 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 17 BP; 2 A; 7 C; 0 G; 8 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  present sequence is a hammerhead ribozyme of the invention.
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                                                           central nervous system injury
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                                                                                                                                                                                                                                     RIBOZYME PHARM INC.
BLATT L.
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                                                                                                                                                                                                                         MCSWIGGEN J
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                                                                                                                                                                         McSwiggen J,
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87.5%;
                                                                                                                                                                         Chowrira BM;
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Pred. No. 2.
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2.5e+02;
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The invention relates to a nucleic acid molecule which down regulates

16-AUG-2001

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RESULT 333
ABK03295/c
\begin{array}{c} \mathbf{AC} \\ \mathbf{AC} \\
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                                                                                                                                                                                                                                                        Homo sapiens
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          chemotherapy-induced neuropathy; amyotrophic lateral sclerosis;
Parkinson's disease; ataxia; Huntington's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human CD20 Inozyme #246
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                                                                                                                                                                                                                                                                                                                                                                                                                              Creutzfeldt-Jakob
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Similarity 81.2%;
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Pred. No. 2.5e+02;
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CC The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a CDNAzyme) an Inozyme (an endolytic nucleic acid cleaving a an RNA molecule CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYM collection of a client cariot cleaving RNA with a NYM molecule (cleaving RNA with a NYM molecule) are contacted with a NYM motif). The CD20-targetting nucleic acid is used to cleave RNA of CD20 in the presence of a divalent cation that is CD20 associated with the level of CD20. The treatment may further comprise the CC proferably Mg^2+. Furthermore, it may be contacted with a cell to reduce CC consociated with the level of CD20. The treatment may further comprise the CL use of one or more therapies. In particular, the CD20 targetting nucleic acid may be used to treat lymphoma, leukaemia, HIV (hùman HEL), bulky CC low-grade or follicular NHL, lymphocytic leukaemia, HIV (hùman HECC) immunocytoma (IMC), small B-cell lymphocytic lymphoma (MCL), CC immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune CC immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune CC immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune CC immunocytoma (IMC), small B-cell lymphocytic lymphoma (MCL), CC immunocytoma (IMC), small B-cell supphocytic lymphoma (MCL), CC immunocytoma (MCL), MCL), CC immunocytoma (MCL), MCL), MCL immunocytoma (MCL), MCL), CC immunocytoma (M
                                                                                                   RESULT 334
ABV78898
                                                                                                                                                                                                                                                                            Query Match
Best Local
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(BLAT/)
(MCSW/)
03-JAN-2003
                                       ABV78898;
                                                                             ABV78898 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                         Sequence
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28-FEB-2000;
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                                                                                                                                                                                                                    1362 TGGAAGAGAAAAGGAG 1377
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) BLATT L.
) MCSWIGGEN J.
                                                                                                                                                                                                                                                                              0.9%;
Similarity 87.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CHOWRIRA B M.
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                                                                                                                                                                                                                                                                                                                                         BP; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; 2000US-181797P.
; 2000US-185516P.
; 2000US-187128P.
                                                                                                                                                                                                                                                              Conservative
(first entry)
                                                                                                                                                                                                                                                                                                                                         A; 7 C; 1 G; 7 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chowrira BM;
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                                                                                                                                                                                                                                                                            Score 12.8; DB 1;
Pred. No. 2.5e+02;
                                                                                                                                                                                                                                                                                                 Length 17;
                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                         Gaps
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RESULT 335 ABV78900 ID ABV789 XX AC ABV789

ABV78900 standard; DNA; 17

ВP

ABV78900

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The present invention relates to human testis expressed Patched like CC protein (HTPL, see ABV78759 to ABBV8520). HTPL CC has two isoforms, with a few single base pair differences between the CC two. One of the single base pair changes introduces a premature stop CC codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL CC shares an overall structure organisation with the Patched protein. The CC shared structural features strongly imply that HTPL plays a role similar CC information in regulating male germ cell development, and the HTPL gene was CC mapped to human chromosome 10pl2-1. HTPL and its coding sequence are CC useful for diagnosing a disorder caused by mutation in HTPL, and in CC therapy and manufacture of a medicament for treatment or prevention of CC such disorders associated with decreased expression or activity of human CC formation. HTPL Such disorders include disorders of testis, or adrenal, adult and CC foetal liver, bone marrow, brain, kidney, lung, placenta, prostate, CC skeletal muscle or colon function. HTPL proteins and nucleic acids are CC clinically useful diagnostic markers and potenial therapeutic agents for CC example from the invention. The present oligonucleotide was used in an CC example from the invention.
                                                                                                                     Matches
                                                                                                                                          Query Match
Best Local Similarity
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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
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30-JAN-2001;
23-MAY-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel isolated human testis expressed Patched like protein useful for identifying agonist and antagonist and specific partners, and for treating subjects having defects in HTPL
                                                                                                                                                                                                                                    Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 2; Page 82; 718pp; English.
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                                                       1518
                                                                                                                  14;
2 GCCCAAGCTCACCAAA 17
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                                                       GCACAAGCTGACCAAA 1533
                                                                                                                                                                                                                                    BP; 7
                                                                                                                  Conservative
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2001WO-US00664.
2001WO-US00665.
2001WO-US00667.
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2001US-0864761.
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                                                                                                                                                                                                                                                                                                  invention.
                                                                                                                                                                                                                                    P
                                                                                                                                          0.9%;
                                                                                                                                                                                                                                    7 C; 2 G; 1 T; 0 other;
                                                                                                               0,
                                                                                                               Score 12.8; DB 1;
Pred. No. 2.5e+02;
0; Mismatches 2
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                                                                                                                                                                            DB 1;
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                                                                                                                                                                         Length 17;
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binding
                                                                                                                  0
                                                                                                                     Gaps
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                       ঠ
                                                                                                                                     The present invention relates to human testis expressed Patched like CC protein (HTPL, see ABV78759 to ABV78752 and ABB99519 to ABB99520). HTPL CC has two isoforms, with a few single base pair differences between the CC two. One of the single base pair changes introduces a premature stop CC codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL CC shares an overall structure organisation with the Patched protein. The CC shared structural features strongly imply that HTPL plays a role similar to that of Patched, and is a potential tumour suppressor. HTPL is CC important in regulating male germ cell development, and the HTPL gene was CC mapped to human chromosome 10pl2.1. HTPL and its coding sequence are CC useful for diagnosing a disorder caused by mutation in HTPL, and in CC therapy and manufacture of a medicament for treatment or prevention of CC such disorder associated with decreased expression or activity of human CC disorder associated with decreased expression or activity of human CC foetal liver, bone marrow, brain, kidney, lung, placenta, prostate, CC skeletal muscle or colon function. HTPL proteins and nucleic acids are clinically useful diagnostic markers and potenial therapeutic agents for CC example from the innertion. The present oligonucleotide was used in an
                                                                    Matches
                                                                                Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel isolated human testis expressed Patched like protein useful for identifying agonist and antagonist and specific partners, and for treating subjects having defects in HTPL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1; human testis expressed Patched like protein; testis; adrenal; liver; male germ cell development; bone marrow; brain; kidney; lung; placenta; prostate; skeletal muscle; colon; male infertility; cancer; ss.
                                                                                                                                     Sequence 17 BP; 6 A; 9 C; 1 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 2; Page 82; 718pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-676582/73
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30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human HTPL scanning oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23-MAY-2001;
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                   1519 CACAAGCTGACCAAAC 1534
                                                                    14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AEOMICA INC
                                                                                  Similarity
CCCAAGCTCACCAAAC 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2001WO-US00663.
2001WO-US00664.
2001WO-US00665.
2001WO-US00667.
2001WO-US00669.
2001WO-US00669.
2001WO-US00669.
                                                                  Conservative
                                                                                                                                                                       the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2001US-0327898
                                                                                0.9%;
                                                                0
                                                                                Score 12.8; DB
Pred. No. 2.5e+
                                                                    Mismatches
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                                                                                DB 1;
.5e+02;
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                                                                                               Length 17;
                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (HTPL),
binding
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                                                                Gaps
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RESULT 336 ABV80429/c ID ABV804

ABV80429 standard; DNA; 17

RESULT 337

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                            S
                                                                                                                                                             The present invention relates to human testis expressed Patched like CC protein (HTPL, see ABV78759 to ABV78762 and ABB98519 to ABB98520). HTPL CC has two isoforms, with a few single base pair differences between the CC two. One of the single base pair changes introduces a premature stop codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL CC shares an overall structure organisation with the Patched protein. The CC shared structural features strongly imply that HTPL plays a role similar to that of Patched, and is a potential tumour suppressor. HTPL is important in regulating male germ cell development, and the HTPL gene was CC mapped to human chromosome 10pl2.1. HTPL and its coding sequence are useful for diagnosing a disorder caused by mutation in HTPL, and in CC therapy and manufacture of a medicament for treatment or prevention of csuch disorder associated with decreased expression or activity of human CHTPL. Such disorders include disorders of testis, or adrenal, adult and CC foetal liver, bone marrow, brain, kidney, lung, placenta, prostate, csheletal muscle or colon function. HTPL proteins and nucleic acids are CC linically useful diagnostic markers and potenial therapeutic agents for male infertility and cancer. The present oligonucleotide was used in an CC example from the invention.
                                                                Matches
                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel isolated human testis expressed Patched like protein (HTPL), useful for identifying agonist and antagonist and specific binding partners, and for treating subjects having defects in HTPL -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30-JAN-2001;
30-JAN-2001;
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                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 2; Page 283; 718pp; English.
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                              2187 TGTGATGAAAATAGCA 2202
17
                                                                14;
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                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AEOMICA
                                                                                                                                    17 BP; 5
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2001WO-US00667.
2001WO-US00668.
2001WO-US00669.
2001US-0864761.
2001US-0327898.
                                                                Conservative
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2001WO-US00664.
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                                                                                                                                  A; 2 C; 1 G; 9 T; 0 other;
                                                                              0.9%;
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                                                                0
                                                                                Score 12.8;
Pred. No. 2.
                                                                Mismatches
                                                                                  2.5e+02;
                                                                                                  DB
                                                                                              Length 17;
                                                                Indels
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ABV80431/c

IID ABV804
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AC ABV804
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AC ABV804
AC ABV8
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                                                                                                                                              Query Match
Best Local
                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1; human testis expressed Patched like protein; testis; adrenal; liver; human testis expressed Patched marrow; brain; kidney; lung; placenta; male germ cell development; bone marrow; brain; kidney; lung; placenta; prostate; skeletal muscle; colon; male infertility; cancer; ss.
                                                                                                                                                                                                                                         Sequence 17
                                                                                                                                                                                                                                                                                                  example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel isolated human testis expressed Patched like protein (HTPL), useful for identifying agonist and antagonist and specific binding partners, and for treating subjects having defects in HTPL -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-676582/73
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30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABV80431;
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16
                                                                                                                                              Similarity
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ATGTTATAAAAATAGC
                                                        ATGTGATGAAAATAGC 2201
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2001WO-US00665.
2001WO-US00667.
2001WO-US00668.
2001WO-US00669.
                                                                                                                                                                                                                                         BP; 5
                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                     the invention.
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                                                                                                                                                                                                                                         A; 3 C; 1 G; 8 T; 0 other;
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                                                                                                                                           0.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              English.
                                                                                                                 Score 12.8; DB 1;
Pred. No. 2.5e+02;
0; Mismatches 2;
                                                                                                                                                                          Length 17;
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                                                                                                                                      The invention relates to an isolated SH3 domain (POSH)-like signalling crotein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino croacids (S1, ABB83999), a sequence having 65% sequence identity to (S1), cc (S1) having 95% deviations, especially conservative substitutions or a cragment of the sequences comprising at least 8 contiguous amino acids. CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an cradaptor protein that interacts with Rho family small GTPases as well as cd downstream components of the signal transduction pathway. (I) is useful creating (I) are useful for diagnosing, monitoring disease and treating caucer, they useful in the development of vaccines and (II) is useful for measuring and for surveying gene expression and creating creating cancer, they useful in the development of vaccines and (II) is useful for on-human animals capable of producing the proteins. The continuous continuous continuous capable of producing the proteins. The continuous continuous continuous capable of the proteins.
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30-JAN-2001;
30-JAN-2001;
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30-JAN-2001;
30-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel human SH3 domain (POSH)-like signalling protein 1 POSHL-1, useful for treating disorders associated with expression or activity of human POSHL1 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene; Rho GTPase; signal transduction; gene expression; cancer; vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABV89408 standard; DNA; 17
                                                                                           specification, but
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Shannon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-MAY-2001;
10-OCT-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AEOMICA
                                                                                        present sequence did not form part of the tion, but is based on sequence information
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2001WO-US00666.
2001WO-US00667.
2001WO-US00668.
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2001US-0864761.
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                                                            Patent Office.
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                                                                                        printed supplied
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                                                                                              Derwent
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Matches Query Match Best Local

Similarity

0.9%;

Score 12.8; DB 1; Pred. No. 2.5e+02; No. Mismatches 2;

Length 17; Indels

0

Gaps

0

Conservative

Sequence 17

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4 C; 5 G; 3 T; 0 other;

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                                                                                       The invention relates to an isolated SH3 domain (POSH)-like signalling CC protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino CC acids (S1, ABBB399), a sequence having 65% sequence identity to (S1), (CC (S1) having 95% deviations, especially conservative substitutions or a CC fragment of the sequences comprising at least 8 contiguous amino acids. CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an CC adaptor protein that interacts with Rho family small GTPases as well as CC downstream components of the signal transduction pathway. (I) is useful CC encoding (I) are useful for diagnosing, monitoring diagnosing and treating caused by altered expression of human POSHL1 including diagnosing and CC useful in gene therapy. (II) is useful for constructing microarrays which CC useful in gene therapy. (II) is useful for constructing microarrays which CC useful in sectual for constructing microarrays which CC are useful for measuring and for surveying gene expression and creating transgenic non-human animals capable of producing the proteins. The CC of the invention is that of a scanning oligonucleotide useful in examples
                               specification, l
                                                                                                                                                                                                                                                                                                                                                                                                         Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide, POSHL-1, useful for treating disorders associated with decreased expression or activity of human POSHL1 -
                                                                                                                                                                                                                                                                                                                                                                         Example 2; SEQ ID NO 124; 60pp + Sequence Listing; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-684061/74.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (AEOM-) AEOMICA INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; POSHL 1; SH3 domain; POSH-like signalling Rho GPPase; signal transduction; gene expression;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-DEC-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  therapy; transgenic; ss.
                              The present sequence did not form fication, but is based on sequence European Patent Office.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17
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2001WO-US00666.
2001WO-US00667.
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2001WO-US00669.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2001US-0328205
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                                               part of the information
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein 1; oncoge
; cancer; vaccine;
                                               supplied to Derwent
                                                               printed
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Sequence 17

BP; 6

A; 4

C; 5 ဂ္ N

T; 0 other

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RESULT 341
ABN00661/c
ID ABN006
XX
AC ABN006
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AC ABN006
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DT 29-MAY
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ABN83025
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                                                                                                                                                                              Matches 14;
                                                                                                                                                                                            Best Local Similarity
                                                                                                                                                                                                      Query Match
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            29-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                    Automated process for custom-designed biochip design, comprises obtaining desired target sequences from customer, creating sequencent motif for an array and applying the motif to a surface for later detection
                                      ABN00661;
                                                             ABN00661 standard; DNA; 17
                                                                                                                                                                                                                                Sequence 17 BP; 4 A;
                                                                                                                                                                                                                                                                      example of an array that may be designed using
                                                                                                                                                                                                                                                                                   for biological array devices. The sequence represents a capture probe designed in the invention for the "sample ataxia" set of targets, as an
                                                                                                                                                                                                                                                                                                          customer orders for custom-designed biochips in an automated process. The invention also includes an automated system and process for providing a fully automated process for the design, manufacture and analysis of data
                                                                                                                                                                                                                                                                                                                                                                            Example 5; Page 21; 47pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18-APR-2000;
22-NOV-2000;
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                                                                                                                                                                                                                                                                                                                                                  The invention relates to a novel process for a manufacturer to obtain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-017664/02.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-APR-2001;
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                                                                                                                                                     2104 GCCAGAGGCATGGAGT 2119
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                                                                                                                             GGCAGAGGCATGCAGT 16
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                                                                                                                                                                              Conservative
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2000US-252880P
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             (first entry)
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                                                                                                                                                                                          0.9%;
                                                                                                                                                                                                                                3 C; 8 G; 2 T; 0 other;
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                                                                                                                                                                                          Score 12.8;
Pred. No. 2.
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Pred. No. 2.5e+02;
                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                            2.5e+02;
                                                                                                                                                                                                                                                                       the method of the
                                                                                                                                                                                                     Length 17;
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                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                               creating sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                   suitable
                                                                                                                                                                              Gaps
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Human GDMLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:653

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Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                     of hgDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hgDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hgDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hgDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hgDMLP-1 production, and in vaccines or for replacement therapy. The polynuclectide sequences encoding hgDMLP-1 may be used for diagnosing a disorder associated with the expression of hgDMLP-1, in particular heart and skeletal muscle disorders. hgDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynuclectide sequences of hGDMLP-1 can be used in gene the accine production. The hGDMLP-1 can be used in gene because the characterise hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI;
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                                                                                                                   Sequence 17
                                                                                                                                                                                                                                                                                             screening of the hGDMLP-1 sequence in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              myosin-like protein
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21-SEP-2000;
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                                                                                                                                                                          ftp.wipo.int/pub/published_pct_sequence.
                                                                                                                                                                                                        The sequence data for this patent did not form part of the printed ification, but was obtained in electronic format directly from WIPO
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2001WO-US00661.
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                           0.9%;
                                                                                                                   C; 5
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                                                                                                                   G; 2 T; 0 other;
Score 12.8; DB
Pred. No. 2.5e+0; Mismatches
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.5e+02;
es 2;
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                                                      Length 17;
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Matches

14;

Conservative

0

Indels

0;

Gaps

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Local

Similarity

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RESULT 342
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and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1 -
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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                                                    protein 1 (hGDMLP-1). The protein and polynucleotide sequences on hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, charactes
                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes a human genome-derived myosin-like
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure;
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30-JAN-2001;
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heart disease;
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RESULT 343
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Matches
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             protein 1
hGDMLP-1
hGDMLP-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-SEP-2000;
27-SEP-2000;
04-OCT-2000;
                                                                                                                                                                                                                           New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1 -
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30-JAN-2001;
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nt invention describes a human genome-derived myosin-like (hGDMLP-1). The protein and polynucleotide sequences of lan be used in gene therapy and vaccine production. The nucleic acids can be used as probes to detect, characteri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      e 22. The present sequence represents an oligomer used in the of the hGDMLP-1 sequence in the exemplification of the presen
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ilarity 87.5%;
Conservative
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2001WO-US00668.
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2001WO-US00666.
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2001WO-US00670.
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0; Mismatches
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Pred. No. 2.
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                                                                                                                                                          English
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2.5e+02;
hes 2;
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continuous directly from
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RESULT 344
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Best Local S
Matches 14
                                                                                                               30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
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30-JAN-2001;
30-JAN-2001;
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21-SEP-2000;
27-SEP-2000;
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30-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                               Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; hear muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.
                                                                                     30-JAN-2001;
30-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human GDMLP-1 17-mer scanning
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     and quantify hGDMLP-1 nucleic acids in samples,
                                                                                                                                                                                                                                                                                                           25-MAY-2001;
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                                           AEOMICA
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                                                                     2001WO-US00669.
2001WO-US00670.
2001US-266860P.
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2000US-236359P.
2000GB-0024263.
2001WO-US00661.
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                                                                                                                                2001WO-US00666.
2001WO-US00667.
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2001WO-US00663.
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CC substrates, to provide initial substrates for the recombinant engineering
CC of hGDMLP-1 protein variants having desired phenotypic improvements, and
CC for expressing the proteins. The hGDMLP-1 proteins or polypeptides may
CC hGDMLP-1 proteins, as standards in assays used to determine the
CC concentration and/or amount specifically of hGDMLP proteins, as specific
CC deficiency in hGDMLP-1 production, and in vaccines or for replacement
CC deficiency in hGDMLP-1 production, and in vaccines or for replacement
CC diagnosing a disorder associated with the expression of hGDMLP-1, in
CC particular heart and skeletal muscle disorders hgDMLP-1, in
CC chromosome 22. The present sequence represents an oligomer used in the
CC screening of the hGDMLP-1 sequence in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 14
30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
                                                             26-MAY-2000;
21-SEP-2000;
27-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1 -
                                                                                                                                                                                                                                                    Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; hear muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characterise
                                                04-OCT-2000;
                                                                                                                              25-MAY-2001; 2001WO-US16981
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                                                                                                                                                                                                                                                                                                                      Human GDMLP-1 17-mer scanning
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                                                             2000US-207456P.
2000US-234687P.
2000US-236359P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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              2001WO-US00661.
2001WO-US00662.
                                                2000GB-0024263.
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                                                                                                                                                                                                                                                                                                                      SEQ ID NO: 4 sequence SEQ ID NO: 1112.
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                                                                                                                                                                                                                                                                                        hGDMLP-1; heart;
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RESULT 346
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30-JAN-2001;
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30-JAN-2001;
                                                            Human; genome-derived myosin-like protein 1; GDMLP-1; muscle; myosin; chromosome 22; gene therapy; vaccine; skeletal muscle disorder; amplicon; screening; ss.
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                                                                                                                                                     Human GDMLP-1
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                                                                                                                                                                                               29-MAY-2002
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Pred. No. 2.5e+02;
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heart disease;
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Homo sapiens

WO200192524-A2

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                                                                                                                                                                                        CC protein 1 (hDMLP-1). The protein and polynucleotide sequences of hDMLP-1 can be used in gene therapy and vaccine production. The CC hGDMLP-1 mucleic acids can be used as probes to detect, characterise CC and quantify hGDMLP-1 nucleic acids in samples, as amplification CC substrates, to provide initial substrates for the recombinant engineering CC of hGDMLP-1 protein variants having desired phenotypic improvements, and CC for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise CC hGDMLP-1 proteins, as standards in assays used to determine the CC concentration and/or amount specifically of hGDMLP proteins, as specific concentration, as therapeutic supplement in patients having specific CC deficiency in hGDMLP-1 production, and in vaccines or for replacement CC diagnosing a disorder associated with the expression of hGDMLP-1, in CC chromosome 22. The present sequence represents an oligomer used in the creening of the hGDMLP-1 sequence in the exemplification of the present convention.
                                                        Matches 14;
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Best Local
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21-SEP-2000;
27-SEP-2000;
04-OCT-2000;
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                                                                                                                Sequence 17
                                                                                                                                                       N.B. The sequence data for this patent did not form specification, but was obtained in electronic format
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  myosin-like protein hGDMLP-1
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                                                                     Similarity
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CCCTGGGAGAAAGTGG 16
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2000US-234687P.

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2000GB-0224263.

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                                                        Conservative
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                                                      0;
                                                                                                             G; 2 T; 0 other;
                                                                    Score 12.8; DB 1;
Pred. No. 2.5e+02;
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RESULT 347 ABN01183 ID ABN01183 standard; DNA; 17 BP.

Sequence 17

BP; 9

A; 1 C;

7 G; 0 U; 0 other

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substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The polymuclectide sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence in the expression of the present sequence in the exemplification of the present
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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
                                                                                                                                                                                                                                                                                 hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering
                                          N.B. The sequence specification, but
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                                                                                                                                                                                                                                                                                                                                                                                                                                       proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises
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                                                                        invention.
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                                                                          The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering
                                                                                                                                                                                                        New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser description ionization, comprises human
            of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specifically.
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biomolecule capture probes for surface-enhanced
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skeletal muscle disorder; amplicon; screening; ss.
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; myosin; chromosome 22; gene therapy; vaccine; heart disease;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; genome-derived myosin-like protein 1; GDMLP-1; muscle; myosin; chromosome 22; gene therapy; vaccine; skeletal muscle disorder; amplicon; screening; ss.
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New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1 -

Disclosure;

SEQ ID 1571; 214pp; English

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RESULT 350
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cc and quantify hGDMLP-1 nucleic acids in samples, as amplification consults the provide initial substrates for the recombinant engineering cof hGDMLP-1 protein variants having desired phenotypic improvements, and cf for expressing the proteins. The hGDMLP-1 proteins or polypeptides may cc several as immunogens to raise antibodies that specifically recognise concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption constation, as therapeutic supplement in patients having specific confisation, as therapeutic sequences encoding hGDMLP-1 may be used for therapy. The polynucleotide sequences encoding hGDMLP-1 may be used for c diagnosing a disorder associated with the expression of hGDMLP-1; in consistent of the present sequence represents an oligomer used in the correction of the hGDMLP-1 sequence in the exemplification of the present present sequence in the exemplification of the present
Sequence 17 BP; 2 A; 7 C; 5 G; 3 T; 0 other;
                                                 at ftp.wipo.int/pub/published_pct_sequence.
                                                                                 N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention describes a numer year conceprotein 1 (hGDMLP-1). The protein and polynuclectic sequence protein 1 can be used in gene therapy and vaccine production. hGDMLP-1 nucleic acids can be used as probes to detect. Chara hGDMLP-1 nucleic acids can be used as probes to a amplificat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human
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Ś 밁 Query Match 0.9%; Best Local Similarity 87.5%; Matches 14; Conservative 1503 CAGCCAGCCGGCTGTG 1518  $\vdash$ CAGCCAGCCTGCTCTG 16 <u>,</u> Score 12.8; Pred. No. 2 Mismatches 8; DB 1; 2.5e+02; Length Indels 17; 0,: Gaps 0

RESULT 351 ABN06184 ABN06184 standard; DNA; 17

PR XXX PR 26-MAY-2000; 2000US-207456P. 21-SEP-2000; 2000US-234687P. Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss. 25-MAY-2001; 06-DEC-2001 Homo sapiens. Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6176. 29-MAY-2002 WO200192524-A2 2001WO-US16981. (first entry)

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04-OCT-2000;
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30-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                    of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynuclectide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering
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Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart;
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                              Human GDMLP-1 17-mer
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30-JAN-2001;
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                                                           Sequence 17
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                                                                                      specification, but was obtained in electron
at ftp.wipo.int/pub/published_pct_sequence.
                                                                                                                         N.B. The sequence data
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substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The polymucleotide sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the
screening invention.
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proteins, or as a
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      protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering
                                                                                                             New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human
                                                           The present invention describes a human genome-derived myosin-like
                                                                                Disclosure;
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30-JAN-2001;
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skeletal muscle
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t directly from WIPO
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21-SEP-2000;
27-SEP-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.
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cc and quantify hGDMLP-1 nucleic acids in samples, as amplification consubstrates, to provide initial substrates for the recombinant engineering cof hGDMLP-1 protein variants having desired phenotypic improvements, and cof for expressing the proteins. The hGDMLP-1 proteins or polypeptides may coment to raise antibodies that specifically recognise comentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser description companies. The polymucleotide sequences encoding hGDMLP-1 may be used for consention. The polymucleotide sequences encoding hGDMLP-1 may be used for consistion; and skeletal muscle disorders. hGDMLP-1, in companies of the hGDMLP-1 sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present companies.
                                                              N.B. The sequence data specification, but was
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises myosin-like protein hCDMLP-1 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein 1 (hightherl). The protein and polynucteotiae sequences of highMLP-1 can be used in gene therapy and vaccine production. The highMLP-1 nucleic acids can be used as probes to detect, charactes
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                                                                                                      invention.
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                                                            for this patent did not obtained in electronic
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В Ś Matches Query Match Best Local 1359 GCCTGGAAGAGAAAAG 1374 N Similarity GCCTGGTAGAGACAAG Conservative 0.9%; 17 0; Score 12.8; I Pred. No. 2.5e 0; Mismatches 2.5e+02; ches 2; DB 1; Length 17; Indels 0, Gaps 0

Sequence 17

BP; 6 A; 3 C; 6 G; 2 T; 0 other;

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RESULT 356
ABN06540 standard; DNA; 17
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Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6532.

29-MAY-2002 ABN06540;

(first entry)

Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.

30-JAN-2001; 30-JAN-2001; 04-OCT-2000; 26-MAY-2000; Homo sapiens. 30-JAN-2001; 30-JAN-2001; 30-JAN-2001; 27-SEP-2000; 21-SEP-2000; 25-MAY-2001; 06-DEC-2001. WO200192524-A2 2001WO-US00661. 2001WO-US00662. 2001WO-US00663. 2001WO-US00664. 2001WO-US00665. 2001WO-US16981. 2000US-236359P. 2000GB-0024263. 2000US-234687P. 2000US-207456P

New polypeptide, for raising antibodies that recognize hGDMLP-1

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RESULT 357
ABNO7353
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30-JAN-2001;
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                                                                                                                                                             Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.
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                                                                                                                                                                                                                                                                           Human GDMLP-1
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WO200192524-A2

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ABN07354

ABN07354 standard;

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                                                                                                                    The present invention describes a human genome-derived myosin-like CC protein 1 (hGpMLP-1). The protein and polynucleotide sequences of CC hGpMLP-1 can be used in gene therapy and vaccine production. The CC hGpMLP-1 nucleic acids can be used as probes to detect, characterise CC and quantify hGDMLP-1 nucleic acids in samples, as amplification CC substrates, to provide initial substrates for the recombinant engineering CC of hGpMLP-1 protein variants having desired phenotypic improvements, and CC for expressing the proteins. The hGDMLP-1 proteins or polypeptides may CC be used as immunogens to raise antibodies that specifically recognise CC hGDMLP-1 proteins, as standards in assays used to determine the CC concentration and/or amount specifically of hGDMLP proteins, as specific CC biomolecule capture probes for surface-enhanced laser description CC diagnosing a disorder associated with the expression of hGDMLP-1, in CC diagnosing a disorder associated with the expression of hGDMLP-1, in CC chromosome 22. The present sequence represents an oligomer used in the correction of the hGDMLP-1 sequence in the examplification of the present
                                                            Matches
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Best Local
                                                                                                                                                       invention.

N.B. The sequence data for this patent did not specification, but was obtained in electronic f
                                                                                                                                            specification, but was obtained in electron
at ftp.wipo.int/pub/published_pct_sequence.
                                                                                                                    Sequence 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  myosin-like protein hGDMLP-1
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27-SEP-2000;
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                            2524 AAGCAGTTGGTAGAAG 2539
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                                                          Conservative
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2001WO-US00666.
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Pred. No. 2
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Human GDMLP-1 17-mer scanning

SEQ ID

NO:5

sequence SEQ

ID NO: 7346

밁 Ś 29-MAY-2002

(first entry)

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N.B. The sequence data specification, but war at ftp wire
                                                                                                         of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart, and skeletal muscle disorders hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present
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21-SEP-2000;
27-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering
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   ftp.wipo.int/pub/published_pct
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Best Local Similarity

0.9%; 87.5%;

Score 12.8; DB 1; Pred. No. 2.5e+02;

Length 17;

Query Match

Sequence

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                      of hGDMLP-1 protein variants having desired phenotypic improvements, an off respressing the proteins. The hGDMLP-1 proteins or polypoptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement
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therapy.
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The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynucleotide sequences of
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                                                            New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1 -
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Matches 14
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format directly from WIPO
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2000GB-0024263.
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RESULT 363
ABN10708
ID ABN107
XX
AC ABN107
XY
PT 29-MAY
XX
EM Human
XX
EM Human;
XM Human;
XM muscle
KW skelet
XX

29-MAY-2002

(first entry)

ABN10708 standard; DNA;

17

0

Human GDMLP-1

17-mer scanning

SEQ ID NO:5 sequence

SEQ

heart disease; hGDMLP-1; heart; ID NO:10700.

muscle;

myosin;

skeletal

Human; genome-derived myosin-like protein 1; GDMLP-1;

myosin; chromosome 22; gene therapy; vaccine; muscle disorder; amplicon; screening; ss.

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                                                                                                                                    CC and quantify hGDMLP-1 nucleic acids in samples, as amplification
CC substrates, to provide initial substrates for the recombinant engineering
CC of hGDMLP-1 protein variants having desired phenotypic improvements, and
CC for expressing the proteins. The hGDMLP-1 proteins or polypeptides may
CC be used as immunogens to raise antibodies that specifically recognise
CC hGDMLP-1 proteins, as standards in assays used to determine the
CC concentration and/or amount specifically of hGDMLP proteins, as specific
CC biomolecule capture probes for surface-enhanced laser desorption
CC biomolecule capture probes for surface-enhanced laser desorption
CC concentration, as therapeutic supplement in patients having specific
CC deficiency in hGDMLP-1 production, and in vaccines or for replacement
CC therapy. The polynucleotide sequences encoding hGDMLP-1 may be used for
CC diagnosing a disorder associated with the expression of hGDMLP-1; in
CC particular heart and skeletal muscle disorders. hGDMLP-1 is localised to
CC chromosome 22. The present sequence represents an oligomer used in the
CC screening of the hGDMLP-1 sequence in the exemplification of the present
                                                                  Matches
                                                                                 Query Match
Best Local
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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
                                                                                                                                                                            invention.

N.B. The sequence data

N.B. affication, but was
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGMMLP-1 nucleic acids can be used as probes to detect, character.
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05-FEB-2001;
                                                                                                                                    Sequence 17
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                      1398 CCTGGAGATAGCCATT 1413
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                                                                 Conservative
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2001WO-US00663.
2001WO-US00664.
2001WO-US00665.
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2001WO-US00667.
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                                                                                                                                  6 C; 3 G; 4 T;
                                                                                                                                                                                 for this patent did not obtained in electronic !
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                                                                 0,
                                                                                  Score 12.8;
Pred. No. 2.
                                                                  Mismatches
                                                                                                                                    0 other;
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Homo sapiens

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                                                                                                                        CC protein 1 (hgbMLP-1) The protein and polynucleotide sequences of hgbMLP-1 can be used in gene therapy and vaccine production. The CC hgbMLP-1 nucleic acids can be used as probes to detect, characterise CC and quantify hgbMLP-1 nucleic acids in samples, as amplification of hgbMLP-1 protein variants having desired phenotypic improvements, and CC substrates, to provide initial substrates for the recombinant engineering CC of hgbMLP-1 proteins variants having desired phenotypic improvements, and CC for expressing the proteins. The hgbMLP-1 proteins or polypeptides may CC be used as immunogens to raise antibodies that specifically recognise CC concentration and/or amount specifically of hgbMLP. Proteins, as specific concentration and/or amount specifically of hgbMLP proteins, as specific concentration, as therapeutic supplement in patients having specific consistation, as therapeutic supplement in patients having specific deficiency in hgbMLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hgbMLP-1 may be used for CC diagnosing a disorder associated with the expression of hgbMLP-1, in CC chromosome 22. The present sequence represents an oligomer used in the creening of the hgbMLP-1 sequence in the exemplification of the present
                                                           Matches
                                                                                        Query Match
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21-SEP-2000;
27-SEP-2000;
                                                                                                                     Sequence
                                                                                                                                                                 N.B. The sequence data for this patent did not specification, but was obtained in electronic i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; SEQ ID 10700; 214pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser description ionization, comprises human myosin-like protein hGDMLP-1 -
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30-JAN-2001;
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                                                                         Similarity
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2001WO-US00663.
2001WO-US00665.
2001WO-US00665.
2001WO-US00666.
2001WO-US00667.
2001WO-US00669.
                                                           Conservative
                                                                                                                      BP; 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention describes a human genome-derived myosin-like
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2000US-236359P.
2000GB-0024263.
2001WO-US00661.
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                                                                                                                   G; 1 T; 0 other;
                                                   Pred. No. 2.5e
0; Mismatches
                                                                         Score 12.8; DB Pred. No. 2.5e+
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                                                                                      Length 17;
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RESULT 364

at ftp.wipo.int/pub/published\_pct\_sequence

specification,

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ABN10709
IID ABN1
XX
AC ABN1
AC A
                                                                                                                             The present invention describes a human genome-derived myosin-like CC protein 1 (hGpMLP-1). The protein and polynucleotide sequences of CC hGpMLP-1 can be used in gene therapy and vaccine production. The CC hGpMLP-1 nucleic acids can be used as probes to detect, characterise CC and quantify hcDMLP-1 nucleic acids in samples, as amplification CC substrates, to provide initial substrates for the recombinant engineering CC of hcDMLP-1 protein variants having desired phenotypic improvements, and CC for expressing the proteins. The hcDMLP-1 proteins or polypeptides may CC be used as immunogens to raise antibodies that specifically recognise CC hcDMLP-1 proteins, as standards in assays used to determine the CC concentration and/or amount specifically of hcDMLP proteins, as specific CC deficiency in hcDMLP-1 production, and in vaccines or for replacement CC diagnosing a therapeutic supplement in patients having specific CC deficiency in hcDMLP-1 production, and in vaccines or for replacement CC therapy. The polymucleotide sequences encoding hcDMLP-1 may be used for CC chromosong 2 disorder associated with the expression of hcDMLP-1; in CC chromosong 2. The present sequence represents an oligoner used in the correction of the bcMMLP-1 is production.
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30-JAN-2001;
30-JAN-2001;
                                                 screening of the hGDMLP-1 sequence in the exemplification of the present invention.

N.B. The sequence data for this patent did not form part of the printed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; .SEQ ID
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30-JAN-2001;
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27-SEP-2000;
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2001US-266860P.
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                          for this patent did not obtained in electronic
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                             form part of the printed format directly from WIPO
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RESULT 365
ABK17887/6
ID ABK17887/6
ABK180-
ABK16-MAY
AX ABK180-
ABK17887/6
ABK178AA
ABK17887/6
ABK178
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Best Local Similarity 87.5
Matches 14; Conservative
vulgaris, angiofibroma of tuberous sclerosis, port-wine stains, sturge Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for treating a patient having a condition associated with the level of ERG, by contacting cells of the patient with (I) under conditions suitable for the treatment. The method comprises the use of one or more therapies under conditions suitable for the treatment. Leukaemia or tumour angiogenesis is treated by administering (I) to the patient in conjunction with one or more of other therapies such as radiation or chemotherapy treatment. (I) is useful for reducing ERG activity in a cell, by contacting the cell with (I). (I) is useful for cleaving RNA o ERG gene, by contacting (I) with RNA, in the presence of a divalent
                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a nucleic acid molecule (I) which down regulates expression of an Ets-related gene (ERG). Is useful for treating conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma, tumour angiogenesis, diabetic retinopathy, macular degeneration, neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel polynucleotide which down regulates expression of Ets-related gene, useful for treating cancer, diabetic retinopathy, macular degeneration, arthritis, psoriasis, verruca vulgaris and Sturge Weber
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ABK17887 standard; RNA; 17
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ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;
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Pred. No. 2.5e+02;
0; Mismatches 2
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ABK18565
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                                                                                                                                                                         Novel polynucleotide which down regulates expression of Ets-related gene, useful for treating cancer, diabetic retinopathy, macular degeneration, arthritis, psoriasis, verruca vulgaris and Sturge Weber
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                                                                                                                                                                                                                                                                                      RIBOZYME PHARM INC. GLAXO GROUP LTD.
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Pred. No. 2.5e+02;
                                                                                                                                                                                                                                                           McSwiggen JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               osteoporosis; DNAzyme;
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The invention relates to a nucleic acid molecule (I) which down regulates expression of an Ets-related gene (ERG). (I) is useful for treating conditions selected from cancer, lymphone, Ewing's sarcoma, melanoma, tumour angiogenesis, diabetic retinopathy, macular degeneration, neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca vulgaris, angiofibroma of tuberous sclerosis, port-wine stains, Sturge

down regulates

Claim 4; Page 81; 149pp; English.

Weber syndrome, Kippel-Trenaunay-Weber syndrome,

osteoporosis and wound healing.

Osler-Weber-rendu ing. (I) is useful

ERG,

condition associated

leukaemia,

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RESULT 367
ABK18734/c
ID ABK18734/c
ID ABK187
XX ABK187
XX O9-APR
XX O9-APR
XX Human;
KW Human;
KW cophtha
KW runovas
KW neovas
KW angiof
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ABK17354-ABK22719 represent nucleic acids, including antisense and enzymatic nucleic acid molecules which regulate expression of ERG, and
                                                                                                                             Novel polynucleotide which down regulates expression of Ets-related gene, useful for treating cancer, diabetic retinopathy, macular
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                                                                                                           degeneration, arthritis,
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GLAXO GROUP LTD.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GAACUGUGCAAGAUGA 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17
                                                                                                                                                                                                                                           Von
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP; 6 A; 2 C; 6 G; 3 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cells of the patient with (I) under conditions suitable
                                                                                                                                                                                                                                           Carlowitz I,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          syndrome, leukaemia; osteoporosis; DNAzyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ribozyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.9%;
                                                                                                           psoriasis,
                                                                                                                                                                                                                                           McSwiggen JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cytostatic; antitumour; antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. 2.50
3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 12.8; DB
Pred. No. 2.5e+
                                                                                                             verruca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .5e+02;
                                                                                                                                                                                                                                           Mclaughlin
                                                                                                           vulgaris and Sturge Weber
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                           'n
                                                                                                                                                                                                                                           Randi AM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          inozyme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              of.
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The invention relates to a nucleic acid molecule (I) which down regulates

The invention relates to a typing kit for judging human leukocyte antigen

Claim 4; Page 90; 149pp; English.

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RESULT 368
ABL31521/c
ID ABL315
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for treatment acting cells of the patient with (I) under conditions suitable for the treatment. The method comprises the use of one or more therapies CC under conditions suitable for the treatment. Leukaemia or tumour CC angiogenesis is treated by administering (I) to the patient in CC conjunction with one or more of other therapies such as radiation or CC conjunction with one or more of other therapies such as radiation or CC clemotherapy treatment. (I) is useful for reducing ERG activity in a CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of CC sell, by contacting (I) with RNA, in the presence of a divalent CC diseases related to the expression of ERG, and as diagnostic tool to CC examine genetic drift and mutations within diseased cells or to detect the presence of ERG RNA in a cell. (I) is useful for specifically CC targeting genes that share homology with ERG gene or ERG fusion genes. CC ABK17354-ABK22719 represent nucleic acids, including antisense and CC enzymatic nucleic acid molecules which regulate expression of ERG, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 0.9%;
Best Local Similarity 87.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                               Human leukocyte antigen (HLA) typing, useful for of individuals e.g. by determining immunogenetic transplanting between them -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            conditions selected from cancer, lymphoma, Ewing's sarco tumour angiogenesis, diabetic retinopathy, macular degen neovascular glaucoma, myopic degeneration, arthritis, ps vulgaris, angiofibroma of tuberous sclerosis, port-wine weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-W
                              Claim 10; Page 284; 345pp; Japanese.
                                                                                                                                      WPI; 2002-122074/16.
                                                                                                                                                                                                                                                            01-JUN-2000; 2000JP-0164798
                                                                                                                                                                                                                                                                                            01-JUN-2001; 2001WO-JP04662.
                                                                                                                                                                                                                                                                                                                                 06-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                   WO200192572-A1
                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; human leukocyte antigen; HLA; genotype; polymorphism;
immunogenetic; transplantation; genetic disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human HLA genotyping oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-MAR-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABL31521;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABL31521 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  expression of an Ets-related gene (ERG). (I) is useful for treating conditions selected from cancer, lymphoma, Ewing's sarcoma, melanom
                                                                                                                                                                                                         (NISN ) NISSHINBO IND INC. (SYST-) SYSTEM RES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2094 CTACCAGCTGGCCAGA 2109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR primers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17 BP; 5 A; 3 C; 5 G; 4 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTACCAGCTGTTCAGA
                                                                                                                                                                      Kagiya T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               of the invention.
                                                                                                                                                                        Ichihara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <u>,,</u>
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                                                                                                                                                                      'n,
                                                                                                                                                                                                                                                                                                                                                                                                                                   genetic disease; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                        Matsumura
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2.5e+02;
2.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ewing's sarcoma, mela
macular degeneration,
                                                                                                                                                                      Ķ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NO 1010
                                                                                                                                                                      Moriya
                                                                                   judging HLA genotypes differences when
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Osler-Weber-rendu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                psoriasis, verruca
                                                                                                                                                                      ŝ
                                                                                                                                                                      Nishida
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      melanoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sturge
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RESULT 369
ABT34419
ID ABT3444
AC ABT344
AC ABT34A
AC ABT344
AC AB
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Best Local S
Matches 14
                           given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probbes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one component of a gene chip, in vitro as (anti)sense resgents, and for production of recombinant polypeptides. Any of the nucleic acids polypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (HLA) genotype of a sample by hybridising a substrate on which 10-24 base oligonucleotides (ABL30512-ABL31809) originating in the sequences of genes e.g. belonging to HLA class I antigens on human genome and containing gene polymorphisms as alloantigens have been immobilised as primers for amplification of cleaved nucleic acids relating to gene polymorphisms. The method is useful for judging HLA genotypes of individuals by determining immunogenetic differences before transplanting between them, providing genetic information to decide compatibility of organ and tissue for transplantation e.g. of bone marrow, kidney, liver, pancreas, Langerhans islet in pancreas and cornea, susceptibility diagnosis of genetic diseases and identifying individuals.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           antisense; sense; tumour; cell degeneration; cancer; Alzheimer schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; antisense; sense; tumour; cell degeneration; cancer; Alzheimer
                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a novel isolated 17 mer nucleic acid sequence,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 40; 720pp; French
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-313353/30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Telerman A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-SEP-2001; 2001FR-0011978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-SEP-2002; 2002WO-IB04208
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tumour suppression related human fukutin oligo SEQ ID No
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12-JUN-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Amson R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; 8 C; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tuijnder M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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Pred. No. 2.5e+02;
0; Mismatches 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cancer; Alzheimer'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 17
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preparation of

pharmaceuticals for prevention and/or treatment

degeneration,

cancer but also Alzheimer's

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RESULT 370
ABT34587/c
ID ABT34587/c
ID ABT345
XX ABT345
XX CYCOS
XW CYCOS
XW CYCOS
XW ANTIE
XW HOMO
XX HOMO
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                            given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one component of a gene chip, in vitro as (anti)sense reagents, and for production of recombinant polypeptides. Any of the nucleic acids, polypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      diseases that are characterised by development of tumours or cell degeneration, specifically cancer but also Alzheimer's disease and schizophrenia. Analysis of the expression of the 17 mer nucleic acids in patient samples is useful for diagnosis and/or prognosis of these diseases. The polypeptides can also be used to generate antibodies, and both the polypeptide and antibodies are useful as components of protein chips. The nucleic acid sequences of the invention can be used in gene therapy. This polymucleotide sequence represents a tumour suppression related human fukutin oligonucleotide of the invention.
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RESULT 371
ABT34848/c
ID ABT34848 standard; DNA; 17
The invention relates to a novel isolated 17 mer nucleic acid sequence, CC given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel the complement of any of them, or the corresponding RNA. The novel generated nucleic acids of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one component of agency chip, in vitro as (anti)sense reagents, and for production of recombinant polypeptides. Any of the nucleic acids, or polypeptides, vectors containing the nucleic acids, cells containing the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell degeneration, specifically cancer but also Alzheimer's disease and schizophrenia. Analysis of the expression of the 17 mer nucleic acids in patient samples is useful for diagnosis and/or prognosis of these
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Pred. No. 2.5e
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2.5e+02;
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RESULT 372
ABT35043/c
The invention relates to a novel isolated 17 mer nucleic acid sequence, consecutive nucleotides from the 17 mer sequence, a sequence with, after coptimal alignment, at least 80 % identity to the 17 mer sequence, a coptimal alignment, at least 80 % identity to the 17 mer sequence, a coptimal alignment, at least 80 % identity to the 17 mer sequence, a coptimal alignment, at least 80 % identity to the 17 mer sequence, a coptimal alignment of any of them under highly stringent conditions, or the complement of any of the corresponding RNA. The novel coptimal stringent conditions are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, coptimal stringent coptimal stringent reagents, and for production of recombinant polypeptides. Any of the nucleic acids, colypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmacceuticals for prevention and/or treatment of viral copy diseases that are characterised by development of tumours or cell copy atient samples is useful for diagnosis and/or prognosis of these schizobrenia. Analysis of the expression of the 17 mer nucleic acids in both the polypeptide and antibodies are useful as components of protein both the polypeptide and antibodies are useful as components of protein
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human fukutin;
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Pred. No. 2
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RESULT 373
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       CC given in the specification, a sequence containing at least 18 (c) consecutive nucleotides from the 17 mer sequence, a sequence with, after coptimal alignment, at least 80 % identity to the 17 mer sequence, a coptimal alignment of them under highly stringent conditions, or coptimal alignment of any of them, or the corresponding RNA. The novel complement of any of them, or the corresponding RNA. The novel coptimal expected in the invention are useful as probes and primers coption of the invention are useful as probes and primers copy as one component of a gene chip, in vitro as (anti)sense reagents, copy and for production of recombinant polypeptides. Any of the nucleic acid, copy and for production of recombinant polypeptides. Any of the nucleic acid, copy peptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for copy peptides. Any of the nucleic acid, copy peptides are copy peptides and copy peptides and copy peptides are copy to the copy peptides and copy peptides are copy peptides. That are characterised by development of tumours or cell copy peptides are useful for diagnosis and/or prognosis of these copy peptides can also be used to generate antibodies, and copy the polypeptide and antibodies are useful as components of protein copy. This polypeptide are can also be used to generate antibodies, and copy the polypeptide and antibodies are useful as components of protein copy. This polypeptide are presented a timent can be used in gene copy there is no copy to the polypeptide and antibodies are copy to the polypeptide and antibodies are useful as components of protein copy the polypeptide and antibodies are useful as components of protein copy the polypeptide and antibodies are useful as components of protein copy the polypeptide and antibodies are useful as components of protein copy. This polypeptide copy the polypeptide copy the polypeptide copy the polypeptide copy the polypeptide copy. This polypeptide copy the polypeptid
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                    CC given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after coptimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that hybridizes to them under highly stringent conditions, or cc sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel conditions is considered nucleic acids of the invention are useful as probes and primers conditions of recombinant polypeptides. Any of the nucleic acid, ce g. as one component of a gene chip, in vitro as (anti) sense reagents, cand for production of recombinant polypeptides. Any of the nucleic acids, collypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral cliseases that are characterised by development of tumours or cell containing the nucleic acids in confidence is useful for diagnosis and/or prognosis of these confidence is useful for diagnosis and/or prognosis of these confidences of the nucleic acids and thodies are useful as components of protein chips. The nucleic acid sequences of the invention can be used in gene therapy. This polypucleotide sequence represents a tumour suppression confidence confidence is useful as components of protein chips.
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CC given in the specification, a sequence containing at least 15
CC consecutive nucleotides from the 17 mer sequence, a sequence with, after coptimal alignment, at least 80 % identity to the 17 mer sequence, a coptimal alignment, at least 80 % identity to the 17 mer sequence, a coptimal alignment at least 80 % identity to the 17 mer sequence, a coptimal alignment of any of them under highly stringent conditions, or the complement of any of them corresponding RNA. The novel isolated nucleic acids of them invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, and for production of recombinant polypeptides. Any of the nucleic acid, and for production of recombinant polypeptides any of the nucleic acids, copypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral comparation of pharmaceuticals for prevention and/or treatment of viral comparation, specifically cancer but also Alzheimer's disease and comparation and propertides are useful as components of these contains. The polypeptide and antibodies are useful as components of protein chips. The nucleic acid sequences of the invention can be used in gene therapy. This polypucleotide sequence represents a tumour suppression
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tumour suppression related human fukutin oligo SEQ ID No
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABT35351 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (MOLE-) MOLECULAR ENGINES LAB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2002WO-IB04208
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                                 polynucleotide sequence represents a tumour fukutin oligonucleotide of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            720pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tuijnder M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>,</u>
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Pred. No. 2.
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Sequence 17

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other,

Best Local Similarity

Query Match

17

4. A; 4 C; 0.9**%;** 87.5**%;** 

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6 T;

0 other; 8; DB 1; 2.5e+02;

Score 12.8; Pred. No. 2.

Length 17;

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The invention relates to a novel isolated 17 mer nucleic acid sequence, CC given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after coptimal alignment, at least 80 % identity to the 17 mer sequence, a cc sequence that hybridizes to them under highly stringent conditions, or CC the complement of any of them, or the corresponding RNA. The novel cisolated nucleic acids of the invention are useful as probes and primers corresponding RNA to the nucleic acid, corresponding to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 14; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 175; 720pp; French.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         polypeptides, antibodies and transfected cells
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-SEP-2001; 2001FR-0011978.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12-JUN-2003 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TIGITCIACAGCAGAI 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ed nucleic acid, useful for treating viral diseases with tumors and cell degeneration, also related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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Pred. No. 2
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. 2.5e+02;
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ABT36389/c
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XX Cytost
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                               Query Match
Best Local (
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                                                                                                                                                                               chips. The nucleic acid sequences or the invention suppression therapy. This polynucleotide sequence represents a tumour suppression therapy. This polynucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells
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                                                                                                                                                                                                                                                                degeneration, specifically cancer but also Alzheimer's disease and schizophrenia. Analysis of the expression of the 17 mer nucleic acids in patient samples is useful for diagnosis and/or prognosis of these diseases. The polypeptides can also be used to generate antibodies, and both the polypeptide and antibodies are useful as components of protein chips. The nucleic acid sequences of the invention can be used in generate and antibodies are useful as components.
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                                                                                                                                 Sequence 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-313353/30
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                            Local
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                                   Similarity
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                                                                                                                                     BP; 5
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                               0.9%;
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Score 12.8; DB 1;
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2.5e+02;
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                                                               Length 17;
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2525 AGCAGTTGGTAGAAGA 2540

Matches Query Match

Local

Similarity

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Score 12.8; DB 1; Pred. No. 2.5e+02; 0; Mismatches 2;

8; "PP . 2.5e+02; 2;

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                             CC given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after CC optimal alignment, at least 80 % identity to the 17 mer sequence, a containing at least 15 copy of the complement of any of them, or the corresponding RNA. The novel CC isolated nucleic acids of the invention are useful as probes and primers CC for detecting, identifying, quantifying and/or amplifying a nucleic acid, CC e.g. as one component of a gene chip, in vitro as (anti)sense reagents, CC and for production of recombinant polypeptides. Any of the nucleic acid, CC e.g. as one component of a gene chip, in vitro as (anti)sense reagents, CC polypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for CC preparation of pharmaceuticals for prevention and/or treatment of viral CC diseases that are characterised by development of tumours or cell CC diseases that are characterised by development of tumours or cell CC diseases. The polypeptides can also be used to generate antibodies, and CC diseases. The polypeptides can also be used to generate antibodies, and containing chips the nucleic acid sequences of the invention can be used in gene ccides in CC diseases. The polypeptide and antibodies are useful as components of these characy. This polynucleotide sequence represents a tumour suppression cc related human fukutin oligonucleotide of the invention.
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Sequence 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 398;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Telerman A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         17-SEP-2001; 2001FR-0011978.
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BP; 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protein chip;
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1 C; 5 G; 4 T; 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tuijnder M;
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ATCAGTTGGTAAAAGA 17

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RESULT 379
ABT37821/c
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                                                                          Matches
                                                                                            Query Match
Best Local
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                                                                                                                                                  Sequence 17
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schizophrenia; pro
human fukutin; ds.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; geantiense; sense; tumour; cell degeneration; cancer; Alzheimer's schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.
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                                    1695 GGAGTTTCCAAGAGAT 1710
  17
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                                                                                              Similarity
                                                                                                                                                                                      This polynucleotide sequence represents a tumour suppression human fukutin oligonucleotide of the invention.
                                                                                                                                                  BP; 6 A; 4 C; 2 G; 5 T; 0 other;
                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Amson R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                        0.98;
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                                                                        0
                                                                                          Score 12.8; DB 1;
Pred. No. 2.5e+02;
                                                                      Mismatches
                                                                                                          Length 17
                                                                        Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene chip;
                                                                    Gaps
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RESULT 381

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RESULT 380
ABT38000/c
ID ABT380
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AC ABT380
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                                                                             Best Local Similarity
Matches 14; Conserv
                                                                                                                                                      Query Match
                                                                                                                                                                                                                                        Sequence 17 BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated nucleic acid, useful for treating viral disea associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells
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                                                                                                                                                                                                                                                                                                                 related human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to a novel isolated 17 mer nucleic acid sequence,
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2533 GTAGAAGACTTGGATC 2548
                                                                                                                                                                                                                                                                                                                                                 This
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                                                                                 Conservative
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                                                                                                                                                                                                                                                                                                             polynucleotide sequence represents a tumour suppression fukutin oligonucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein chip; gene therapy; tumour suppression;
ds.
                                                                                                             0.9%;
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                                                                                                                  Score 12.8;
Pred. No. 2.
                                                                                     Mismatches
                                                                                                                      .5e+02;
                                                                                                                                                      DB 1;
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                                                                                 Indels
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                                                                             Gaps
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ABT38045

ABT38045 standard; DNA; 17

ВP

12-JUN-2003

(first entry)

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                                                                                                                                                            CC given in the specification, a sequence containing at least 15 consecutive nucleotides from the 17 mer sequence, a sequence with, after CC optimal alignment, at least 80 % identity to the 17 mer sequence, a cCC sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probes and primers CC for detecting, identifying, quantifying and/or amplifying a nucleic acid, CC e.g. as one component of a gene chip, in vitro as (anti)sense reagents, CC and for production of recombinant polypeptides. Any of the nucleic acids, CC endypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral CC diseases that are characterised by development of tumours or cell containing the 17 mer nucleic acids in CC diseases that are characterised by development of tumours or cell containing the 18 millioniant samples is useful for diagnosis and/or prognosis of these cC diseases. The polypeptides can also be used to generate antibodies, and CC both the polypeptide and antibodies are useful as components of protein CC both the polypeptide and antibodies are useful as components of protein CC chips. The nucleic acid sequences of the invention can be used in gene therapy. This polynucleotide sequence represents a tumour suppression cc related human fukutin oligonucleotide of the invention.
                                                                            Query Match
Best Local S
Matches 14
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                                                                                                                                                            Sequence 17 BP; 5
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                                                                            Local Sim
                                        1377
                                                                                                 Similarity
                                   GATTACAGCTTCCCCA 1392
GATCACAGCTGCCCCA 16
                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Amson R,
                                                                                                                                                            A; 7 C; 3 G; 2 T; 0 other;
                                                                                            0.9%;
87.5%;
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                                                                                               Score 12.8; DB
Pred. No. 2.5e+(
                                                                              Pred. No. 2.5
); Mismatches
                                                                                               DB 1;
.5e+02;
                                                                                                                    Length 17;
                                                                            Indels
                                                                            0
                                                                            Gaps
                                                                              0
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RESULT 382 ABT38046 ID ABT380

ABT38046 standard; DNA; 17

RESULT 383 ABT39470/c ID ABT394 XX AC ABT394

ABT39470 standard; DNA; 17

ВP

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ABT39470;

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CC consecutive nucleotides from the 17 mer sequence, a sequence, a sequence, a teat all least 80 % identity to the 17 mer sequence, a cc sequence that hybridizes to them under highly stringent conditions, or the complement of any of them, or the corresponding RNA. The novel consisted nucleic acids of the invention are useful as probes and primers consisted nucleic acids of the invention are useful as probes and primers consisted production of recombinant polypeptides. Any of the nucleic acid, cc g, as one component of a gene chip, in vitro as (anti)sense reagents, cc and for production of recombinant polypeptides. Any of the nucleic acids, colypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for creatment of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tunours or cell containing the are separation, specifically cancer but also Alzheimer's disease and schizophrenia. Analysis of the expression of the 17 mer nucleic acids in capacity separation of the polypeptides can also be used to generate antibodies, and containing the patient samples is useful for diagnosis and/or prognosis of these containing the polypeptide and antibodies are useful as components of protein chips. The nucleic acid sequences of the invention can be used in gene chips. The nucleic acid sequences of the invention can be used in gene containing the c
                                                                                      Matches
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Best Local Similarity
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                                                                                                                                                                               Sequence 17
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ATCAGAGTGAAGTATG 17
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Pred. No. 2.5e+02;
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RESULT 384
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Best Local
12-JUN-2003
                                    ABT39771;
                                                                    ABT39771 standard; DNA; 17
                                                                                                                                                                                                                                                                                                              Sequence 17 BP; 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tumour suppression related human fukutin oligo SEQ ID No
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                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                       CTATTACAAAAAGACC 2253
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(first entry)
                                                                                                                                                                                                                                                                                                              A; 1 C; 4 G; 7 T; 0 other;
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Pred. No. 2.5e+02;
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2;
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                                                                                                                                                                                                                                                                        Length 17;
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Tumour suppression related human fukutin oligo SEQ ID No
                                       5408
8
            gene
disease;
         chip;
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Čýtostatic; virucide; neuroprotective; nootropic; neuroleptic; antisense; sense; tumour; cell degeneration; cancer; Alzheimer' schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.

Homo sapiens.

WO2003025175-A2

17-SEP-2002; 2002WO-IB04208.

17-SEP-2001; 2001FR-0011978

(MOLE-) MOLECULAR ENGINES LAB

Telerman Ă, Amson R, Tuijnder M;

WPI; 2003-313353/30.

New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells -

Disclosure; Page 666; 720pp; French.

The invention relates to a novel isolated 17 mer nucleic acid sequence, CC given in the specification, a sequence containing at least 15 crossecutive nucleotides from the 17 mer sequence, a sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a containing at least 15 crossequence that hybridizes to them under highly stringent conditions, or cc the complement of any of them, or the corresponding RNA. The novel considered nucleic acids of the invention are useful as grobes and primers cor detecting, identifying, quantifying and/or amplifying a nucleic acid, ce.g. as one component of a gene chip, in vitro as (anti) sense reagents, cc and for production of recombinant polypeptides. Any of the nucleic acids, colypeptides, vectors containing the nucleic acids, cells containing the vector or antibodies directed against the polypeptides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral cdiseases that are characterised by development of tumours or cell cdiseases that are characterised by development of these schizophrenia. Analysis of the expression of the 17 mer nucleic acids in patient samples is useful for diagnosis and/or prognosis of these chips. The nucleic acid sequences of the invention can be used in gene chips. The nucleic acid sequences of the invention can be used in gene chips. The nucleic acid sequences of the invention can be used in gene chips. This polynucleotide sequence represents a tumour suppression con the invention can be used in gene con the containing the polynucleotide sequence represents a tumour suppression containing the con

Sequence 17 BP; 2 A; 5 C; 2 G; 8 T; 0 other;

Matches Query Match Best Local Local Similarity Conservative 0.9%; 0, Score 12.8; DB 1; Pred. No. 2.5e+02; Length 17; Indels 0, Gaps

0

ঠ 1364 GAAGAGAAAAGGAGAT 1379

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17

GCAGAGAAAATGAGAT 2

RESULT 385 ABT39947/c ABT39947 standard; DNA; 17

13-JUN-2003

(first entry)

Tumour suppression related human fukutin oligo SEQ ID No

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RESULT 386
ACA06845/c
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ACA06845
                                                             ACA06845 standard; RNA; 17
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ilarity 87.5%;
Conservative
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Pred. No. 2.5e+02;
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15-AUG-1994;
07-DEC-1992;
18-MAY-1994;
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WPI; 2003-340953/32.
                                                            Stinchcomb DT, Mcswiggen J,
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94US-0245466.
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                                                               Draper KG
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Novel enzymatic nucleic acid molecules which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B useful for treating cancer, inflammatory disorders and autoimmune diseases -

Claim 3; Page 36; 72pp; English.

CC (1) is useful for cleaving RNA comprising a sequence of REL-A gene, in Ct the presence of a divalent cation, especially Mg^2-+. The enzymatic and cantisense nucleic acid molecules are useful for treating breast, lung, CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic, CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or cmultidrug resistant cancer. The method involves use of other drug contents as monoclonal antibodies, REL-A-specific inhibitors or chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate, CC cyclophosphamide, doxorubin, fluorouracil carboplatin, edatrexate, CC gemeitabine or radiation therapy. The enzymatic and antisense nucleic acid molecules are also useful for treating inflammatory disease such as crejection, gene therapy applications, ischaemia/reperfusion injury contents, allergic airway inflammation, inflammatory bowel disease or infection. This sequence represents the substrate of a novel regulates expression of a sequence encoding a subunit of nuclear factor kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme configuration. The enzymatic nucleic acid molecule is adapted to treat cancer and is useful for down-regulating REL-A activity in a cell, for treating a patient having a condition associated with the level of REL-A. enzymatic nucleic The invention describes an enzymatic nucleic acid molecule (I) which down regulates expression of a sequence encoding a subunit of nuclear factor acid molecule.

Matches Query Match Best Local Similarity Sequence 17 14; BP; 0.9%; ilarity 87.5%; Conservative 3 A; 6 C; 4 G; 4 U; 0 other; °. Score 12.8; DB 1; Pred. No. 2.5e+02; Mismatches ۲. Length 17; Indels ٥,

Gaps

0

SXSXSXSXS

03-JUN-2003

(first entry)

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Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme;

NFKB sub-unit modulating inozyme substrate

#664.

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16

CCTGGAGAGAGCCAGT 1

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regulates expression of a sequence encoding a subunit of nuclear factor configuration. The enzymatic nucleic acid molecule is adapted to treat cancer and is useful for down-regulating REL-A activity in a cell, for treating a patient having a condition associated with the level of REL-A. (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in the presence of a divalent cation, especially Mg^2^+. The enzymatic and cantisense nucleic acid molecules are useful for treating breast, lung, prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic, cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or multidrug resistant cancer. The method involves use of other drug therapies such as monoclonal antibodies, REL-A-specific inhibitors or chemotherapy including paclitaxel, docetexel, cisplatin, methotrexate, cyclophosphamide, doxorubin, fluorouracil canbolatin, edatrexate, cyclophosphamide, doxorubin, fluorouracil carbolatin, edatrexate such as a solution of the enzymatic and antisense nucleic acid molecules are also useful for treating inflammatory disease such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Enzymatic nucleic acid; nuclear factor kappa B; NPKB; inozyme; zinzyme; G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human; lung cancer; prostate cancer; REL-A activity; breast cancer; human; lung cancer; prostate cancer; REL-A activity; breast cancer; human; lung cancer; prostate cancer; REL-A cancer; brain cancer; cescer; paracer; stomach cancer; bladder cancer; melanoma; cancer; stomach cancer; bladder cancer; melanoma; lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor; chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate; cyclophosphamide; doxorubin; fluorouracil carboplatin; edatrexate; cyclophosphamide; doxorubin; fluorouracil carboplatin; edatrexate; genecitabine; radiation therapy; inflammatory disease; asthma; diabetes; rheumatoid arthritis; restenosis; crohn; s disease; obesity; ischaemia; gene therapy; autoimune disease; lupus; multiple sclerosis; sepsits; transplant/graft rejection; reperfusion injury; glomerulonephritis; allergic airway inflammation; inflammatory bowel disease; infection; separacer; allergic airway inflammation; inflammatory bowel disease; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 3; Page 40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel enzymatic nucleic acid molecules which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B useful for treating cancer, inflammatory disorders and autoimmune diseases -
                                                                                                                                                                                                                                                                                                                                                                           The invention describes an enzymatic nucleic acid molecule (I) which down
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18-MAY-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STINCHCOMB I
MCSWIGGEN J.
DRAPER K G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
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92US-0987132.
94US-0245466.
96US-0777916.
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                                                                                                                                                                                                                                                                                                                                                                                                                           72pp; English.
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Matches
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                                                      The invention relates to a novel stabilising reaction reagent for use in the amplification and/or detection of a target nucleic acid comprising: preparing a reaction mixture with e.g. a nucleic acid as template, at least 1 primer and RNaseH; and incubation of the reaction mixture for a defined period of time to form a reaction product during the amplification of such target nucleic acid. The method is useful for stabilising and long-term storage of reaction reagents for highly sensitive and specific amplification and detection of nucleic acids particularly in identifying pathogenic microorganisms or viruses in a sample using chimeric oligonucleotide primers, which is useful in genetic engineering and clinical medicine. This polynucleotide sequence
                             engineering and clinical medi
represents an oligo relating
method of the invention.
                                                                                                                                                                                                                                                                                          Method for stabilizing and storing reaction reagents for specific amplification and detection of nucleic acids particularly in e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Stabilising reaction reagent; PCR; primer; RNaseH; long-term specific amplification; pathogenic microorganism; chimeric; genetic engineering; clinical medicine; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes, obesity, autoimmune disease, lupus, multiple sclerosis, transplant/crejection, gene therapy applications, ischaemia/reperfusion injury (central nervous system (CNS) and myocardial), glomerulonephritis, sepsis, allergic airway inflammation, inflammatory bowel disease or infection. This sequence represents the substrate of a novel enzymatic nucleic acid molecule.
                                                                                                                                                                                                                                                                                                                                           WPI; 2003-148805/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-JUN-2001; 2001JP-0177737.
20-AUG-2001; 2001JP-0249689.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Stabilising reagent method related oligo SEQ ID
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14; Conserv
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                                                                                                                                                                                                                                                                                                                                                                        Asada K,
                                                                                                                                                                                                                                                                                                                                                                                     Uemori T,
                                                                                                                                                                                                                                                                             pathogenic microorganisms
                                                                                                                                                                                                                                                Page 126;
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ilarity 87.5%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                         Kato
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                                                                                                                                                                                                                                           177pp;
                                                                                                                                                                                                                                                                                                                                                                        Mukai H,
Cato I;
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                                           to the novel
                                                                                                                                                                                                                                               Japanese
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Pred. No. 2.
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                                                                                                                                                                                                                                                                               or viruses
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2.5e+02;
                                           stabilising
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                                           reaction reagent
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          storage;
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                                                                        in genetic
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Sequence

17

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3 A;

9 C;

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Ή; 1 U;

0 other

Length 17;

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RESULT 389
ABZ60549
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Best Local 9
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Best Local
                                                      Matches
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06-JUN-2001;
10-SEP-2001;
                                                                                                                                               acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-F human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-Heumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524, ABZ66530 - ABZ66530 - ABZ66585 represent substrate/target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras; enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV; anti-rheumatic; cancer; AIDS; ss.
                                                                                                        Sequence
                                                                                                                                                                                                                                                                                         The
                                                                                                                                                                                                                                                                                                                  Claim 58; Page 97; 185pp; English.
                                                                                                                                                                                                                                                                                                                                            Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encod HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human K-Ras DNAzyme substrate
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                        invention
                        2151 TTTAGCAGCCAGAAAT 2166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1752 GCAAGTGGTCATGGCG 1767
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                                                     10;
N
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                                                                  Similarity
                                                                                                           17
UUUAGUAACCAGAAAU 17
                                                                                                                                     for the human ribozymes of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; 2001US-294140P.
; 2001US-296249P.
; 2001US-318471P.
                                                                                                          BP; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                     Conservative
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                                                                                                                                                                                                                                                                                      relates to a novel short interfering RNA (siRNA) nucleic
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                                                                0.9%;
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                                                                                                          G; 6 U; 0 other;
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Pred. No. 2.5e+02;
0; Mismatches 2;
                                                   Score 12.8; DB
Pred. No. 2.5e+(
4; Mismatches
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                                                  DB 1;
1.5e+02;
les 2;
                                                                                                                                                                                                                                                                                                                                               virus sequences -
                                                                             Length 17;
                                                     Indels
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RESULT 390 ABZ60832

anti-rheumatic; cancer; AIDS; ss.

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RESULT 391
ABZ61775
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Best Local
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06-JUN-2001;
10-SEP-2001;
                                                                                                                                           ABZ61775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras; enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV; anti-rheumatic; cancer; AIDS; ss.
          Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
                                                     Human H-Ras DNAzyme target #566.
                                                                                    21-MAR-2003
                                                                                                                                                                                                                                                                                                                                      Sequence 17 BP; 8 A; 2 C; 5 G; 2 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2003-140484/13.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                2190 GATGAAAATAGCAGAC 2205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              58; Page 103; 185pp;
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                                                                                                                                                                                                                                                                               13;
                                                                                                                                                                                                                    N
                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                            standard; RNA;
                                                                                                                                                                                                                    GAAGAAUAUAGCAGAC 17
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; 2001US-296249P.
; 2001US-318471P.
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                                                                                    (first entry)
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                                                                                                                                              17
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                                                                                                                                                                                                                                                                            Score 12.8; DB 1;
Pred. No. 2.5e+02;
                                                                                                                                                                                                                                                                                                         Length 17;
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RESULT 392
ABZ62111/c
ID ABZ62111 standard; RNA; 17 BP.
XX
AC ABZ62111;
XX
AC ABZ62111;
YOU
T 21-MAR-2003 (first entry)
XX
DE Human H-Ras DNAzyme target #902.
XX
DE Human; ribozyme; short interferi
XX
Human; ribozyme; short interferi
XX
Human; ribozyme; cacid; H-Ras; N
XX
M enzymatic nucleic acid; H-Ras; N
XX
Anti-rheumatic; cancer; AIDS; ss
XX
PN w0200297114-A2.
XX
PD 05-DEC-2002.
XX
PD 05-DEC-2002.
XX
PP 29-MAY-2001; 2002WO-US16840.
XX
PR 29-MAY-2001; 2001US-296140P.
PR 29-MAY-2001; 2001US-296249P.
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Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
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                                                                                                                                                                                                               Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
anti-rheumatic; cancer; AIDS; ss.
                                                                                                                                                                                                                                                                                         Human H-Ras DNAzyme target #902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 17 BP; 3 A; 4 C; 6 G; 4 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 58; Page 121; 185pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29-MAY-2001; 2001US-294140P
06-JUN-2001; 2001US-296249P
10-SEP-2001; 2001US-318471P
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2.5e+02;
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a novel short interfering RNA (siRNA) nucleic acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HERZ, K-Ras, H-Ras, N-Ra human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HERZ, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ59889 - ABZ65216, ABZ64544 - ABZ65531, ABZ66520 - ABZ665285 represent substrate/target
                                                                                                                                               29-MAY-2001; 2001US-294140P
06-JUN-2001; 2001US-296249P
10-SEP-2001; 2001US-318471P
                                                                                                                                                                                                                                                                                                                                     Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras; enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV; anti-rheumatic; cancer; AIDS; ss.
                                                         WPI; 2003-140484/13.
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                                                                                                                                                                                                                                                                                                       Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences
                                                                                    Mcswiggen
                                                                                                                    (RIBO-) RIBOZYME PHARM INC
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Pred. No. 2.
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Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences

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RESULT 394
ABZ65478/c
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Best Local
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                                                                              The invention relates to a novel short interfering RNA (siRNA) nucleic acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Rahuman immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and
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06-JUN-2001; 2001US-296249P.
10-SEP-2001; 2001US-318471P.
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anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung
                                                                                                                                                                                                                                              Claim 4; Page 151; 185pp; English.
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. 2.5e+02;
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                                                                                        This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

ABC00010-ABC99989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABH829989, Tepresent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Set of oligonucleotides, useful for diagnosis and cell typing, designed to detect single nucleotide polymorphisms and cytosine methylation status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; SEQ ID 41027; 29pp + Sequence Listing; German
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                                                                 ftp.wipo.int/pub/published_pct_sequences.
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RESULT 396
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ID ABC410
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ABC76782 standard; DNA; 13
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ABC00010-ABC99989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI32073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                       Oligonucleotide SEQ ID NO 76799
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                                                                                   21-FEB-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Set of oligonucleotides, useful for diagnosis and cell typing, designed to detect single nucleotide polymorphisms and cytosine
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Pred. No. 1.
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                    for detecting SNP TSC0019618
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.9e+02;
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RESULT 398
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ABC00010-ABC99989, ABP00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI32073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                           SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic
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                                                                                               WO200177384-A2
                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                             Oligonucleotide SEQ ID NO 76800 for detecting SNP TSC0019618
                                                                                                                                                                                                                                                                 21-FEB-2002
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12; Conserv
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                                                                                                                                                                                                                                                               (first entry)
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Pred. No. 1.9e+02;
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Mismatches 0
                                                                                                                                                              respiratory; immune; metabolic
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07-APR-2000; 2000DE-1019173 06-APR-2001; 2001WO-IB00713.

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RESULT 399
ABC79816/c
ID ABC798
XX ABC798
XX ABC798
XX Oligon
XX SNP; s
KW Peptid
KW Centra
XX Homo s
XX HOmo s
XX HOTO S
XX SEt of PT design
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Best Local
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ABC00010-ABE09989, ABF00010-ABF99989, ABH00010-ABF9989 and ABI00010-ABI82073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                              SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic
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                 Claim 1; SEQ
                                                   methylation status
                                                                  Set of oligonucleotides, useful for diagnosis and cell typing, designed to detect single nucleotide polymorphisms and cytosine
                                                                                                                       WPI; 2001-657177/75
                                                                                                                                                                                                                          07-APR-2000; 2000DE-1019173
                                                                                                                                                                                                                                                            06-APR-2001; 2001WO-IB00713.
                                                                                                                                                                                                                                                                                               18-OCT-2001.
                                                                                                                                                                                                                                                                                                                                WO200177384-A2
                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Oligonucleotide SEQ ID NO 79833 for detecting SNP TSC0020266.
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                   ID 79833;
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                29pp + Sequence Listing; German
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1.9e+02;
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders The oligomers are also used for detecting cell type differentiation.

ABC00010-ABC99989, ABF00010-ABF9989, ABH001010-ABH99989 and ABI00010-ABH82073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
Sequence 13
                                                     ftp.wipo.int/pub/published_pct_sequences.
BP; 1 A; 0 C; 6 G; 5 T; 1 other;
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밁 Ś Matches Query Match Best Local : 13 RAACTCCAACACC 1 1 Similarity 12; Conserv GAACTCCAACACC 1599 Conservative 0.9%; Score 12.6; Pred. No. 1. Mismatches DB 1; 1.9e+02; Length 13 Indels 0 Gaps

0

ABC79817 standard; DNA; 21-FEB-2002 (first entry) ü

Oligonucleotide SEQ ID NO 79834 for detecting SNP TSC0020266

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; 88; central nervous system; gastrointestinal; respiratory; immune; metabolic

Homo sapiens.

WO200177384-A2

18-OCT-2001

06-APR-2001; 2001WO-IB00713.

07-APR-2000; 2000DE-1019173.

EPIGENOMICS AG

Olek A, WPI; 2001-657177/75 Piepenbrock C, Berlin ζ.

Set of oligonucleotides, useful for diagnosis and cell designed to detect single nucleotide polymorphisms and methylation status typing,

Claim 1; SEQ ID 79834; 29pp + Sequence Listing; German

RESULT 400
ABC798
XX ABC798
XX ABC798
XX 21-FEB
XX 21-FEB
XX SNP; s
KW PEPLIG
XX SNP; s
KW Centra
XX Centra
XX Homo s
XX Centra
XX CETIGPI Olek J
XX Set of
PI design
XX Claim
XX Cla This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

ABC00010-ABC99989, ABF00010-ABF9988, ABH00010-ABH9988 and ABI00010-ABH89989, appropriate of the printed appectation, but was obtained in electronic format from WIPO at

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RESULT 401
ABF84730
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Best Local 9
                                                                                                                                           This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

ABC00010-ABC9988, ABF00010-ABF9989, ABH00010-ABH9998 and ABH00010-ABH9989, The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                  Set of oligonucleotides, useful for diagnosis and cell typing, designed to detect single nucleotide polymorphisms and cytosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; peptide nucleic acid; cytosine methylation; cardiovascular; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                         Sequence 13
                                                                                                                                                                                                                                                                                                             Claim 1; SEQ ID 184727; 29pp + Sequence Listing; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-APR-2001; 2001WO-IB00713.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 central nervous system; gastrointestinal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Oligonucleotide SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABF84730
                                                                                                                                ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                        methylation status
                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-657177/75
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                         2341 GGGGTGTTAATGT 2353
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                                                    l Similarity
12; Conserv
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                                                  0.9%;
ilarity 92.3%;
Conservative
                                                                                                      BP; 2 A; 0 C; 6 G; 4 T; 1 other;
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                                                              Score 12.6; DB 1;
Pred. No. 1.9e+02;
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1; Mismatches
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Pred. No. 1.9e+02;
                                                     Mismatches
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RESULT 402 ABF84731/c

Homo sapiens

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RESULT 403
ABH29758/c
ID ABH297
XX
AC ABH297
XX
AC ABH297
XX
Oligon
XX
Oligon
XX
SNP; S
KW SNP; S
KW SNP; S
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ABC00010-ABC99989, ABF00010-ABF99889, ABH00010-ABH99989 and ABI00010-ABI3E2073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic
                                                                                                   Oligonucleotide SEQ ID NO 229735 for detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 13 BP; 4 A; 6 C; 0 G; 2 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           designed to detect single nucleotide polymorphisms methylation status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Set of oligonucleotides, useful for diagnosis and cell typing, designed to detect single nucleotide polymorphisms and cytosine
                                                                                                                                       22-FEB-2002
                                                                                                                                                                                                       ABH29758 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 1; SEQ ID 184728; 29pp + Sequence Listing;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-APR-2000; 2000DE-1019173
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12; Conserv
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Pred. No. 1.9e+02;
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RESULT 404
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Best Local
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ABC10010-ABC29989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention:
NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Olek
           Olek A,
                                                              07-APR-2000;
                                                                                       06-APR-2001;
                                                                                                                    18-OCT-2001
                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                            SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
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            Piepenbrock C,
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                                                               2000DE-1019173
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                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                acid; cytosine methylation
system; gastrointestinal;
                                                                                                                                                                                                                                                      SEQ ID
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           Berlin K;
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                                                                                                                                                                                                                                                    229736 for detecting SNP TSC0056037.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 12.6; DB 1;
Pred. No. 1.9e+02;
1; Mismatches 0;
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                                                                                                                                                                                                 respiratory;
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RESULT 405
ABH61844/c
ID ABH618
XX ABH618
XX ABH618
XX ABH618
XX Oligor
XX SNP; E
KW Peptic
KW Centra
XX Homo f
XX H
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Best Local
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ABC00010-ABC99999, ABF00010-ABF99989, ABF00010-ABF99999 and ABF00010-ABF99999, ABF00010-ABF99999 and peresent the oligomers described in the invention.
NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.
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                                                                                                                                                                                                                                                                                                                                                                                                        Olek A,
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                                                                                                                                                                                                                                  designed to detect
methylation status
                                                                                                                                                                                                                                                          Set of oligonucleotides, useful for designed to detect single nucleotide
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                                                                                                                                                                         ID 261821; 29pp + Sequence Listing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2000DE-1019173.
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                                                                                                                                                                                                                                                             polymorphisms
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                                                                                                                                                                            German.
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This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a

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Matches 12; Conserv
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                                                                              range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

ABC00010-ABC9989, ABF00010-ABF9989, ABH00010-ABH99989 and ABI00010-ABH9989 ABI00010-ABH998 ABI00010-ABH998 ABI00010-ABH998 ABI00010-ABH998 ABI00010-ABH998 ABI00010-ABH998 ABI00010-ABH998 ABI00010-ABH998 ABI00010-ABH998 ABI0
                                                                                                                                                                                                                                                                             This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a
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     Sequence 13
                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 1; SEQ ID 261822; 29pp + Sequence Listing; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         methylation status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single nucleotide polymorphisms and cytosine
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Oligonucleotide SEQ ID NO 261822 for detecting SNP TSC0063523
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T; 1 other;
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1.9e+02;
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Query Match
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Matches 12; Conserv

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RESULT 407
ABK55502/c
ID ABK555
               CC The invention relates to an isolated polynucleotide (I) comprising a CC nucleotide sequence which is a polymorphic variant of a reference CC sequence for Selectin L Lymphocyte Adhesion Molecule 1 (SELL) gene. CE polypeptide is useful for screening for drugs targeting the CC polypeptide. Oligonucleotides derived from (I) are used to target SELL CC and a haplotype or haplotype pair of SELL gene. These are useful in CC developing diagnostic tests and therapeutic treatments for neonatal CC pertussis (whooping cough). (I) is useful for studying the expression and CC function of SELL and expressing SELL procesin for use in screening for CC candidate drugs to treat diseases related to SELL activity. The CC associated with selficiency and reliability of several steps in the CC discovery and development of drugs for treating diseases associated with SELL activity. The method is useful to validate target for treating a cough, screening a cough is condition or disease predicted to be associated with SELL activity. The method is also useful in screening for such activity. The method is also useful to be associated with SELL activity. The method is also useful to screening for compounds that display the highest desired against or antagonist CC associated with SELL activity, e.g. detecting which of the SELL co treat a specific condition or disease predicted to be associated with SELL co treat a specific endition or disease predicted to be cased activity for each of the most frequent SELL is offerent in the CC activity for each of the most frequent SELL is useful in studying the effect of the wariation on the biological activity, on the binding affinities of one or more candidate drugs targeting SELL, on the SELL binding affinities of one or more candidate drugs targeting the SELL is building the binding offerent in the second candidate drugs targeting secure the second candidate drugs targeting the SELL is building the binding second candidate drugs targeting the SELL is because the second candidate drugs targeting the SE
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RESULT 408
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Best Local Similarity
Matches 12; Conserv
Query Match
Best Local Similarity
                                                                               familial dysbetalipoproteinaemia, type III hyperlipoproteinaemia, atherosclerosis, and Alzheimer's disease. They are useful to validate APOE as a candidate agent for treating a specific condition or disease predicted to be associated with APOE activity and in the design of clinical trials of candidate drugs for treating a specific condition or disease predicted to be associated with APOE activity. Genotyping or haplotyping methods are useful to screen for compounds targeting APOE to treat a specific condition or disease associated with APOE activity. The present DNA sequence is an allele specific oligonucleotide (ASO) probe which is used for detecting human APOE gene polymorphisms.
                                                                                                                                                                                                                                   The patent discloses novel genetic variants of human apolipoprotein E (APDE) gene. The invention also relates to compositions and methods for haplotyping and/or genotyping the APDE gene. The haplotyping methods of the invention are useful for improving the efficacy and reliability of several steps in the discovery and development of drugs for treating diseases associated with APDE activity, e.g.
                                                                                                                                                                                                                                                                                                                                                                             Genotyping human apolipoprotein gene of individual for determining haplotype of individual, involves determining identity of nucleotide pair at specific polymorphic sites for two copies of gene -
                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI;
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oligonucleotides of the invention.
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Pred. No. 2.3e
1; Mismatches
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                                                     T; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HH;
    12.6; DB 1;
No. 2.3e+02;
                                                     other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6; DB 1;
2.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>0</u>
                 Length 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 15;
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RESULT 410
AAV95609
ID AAV956
XX
AC AAV956
XX
AC AAV956
DT 24-FEB
XX
DE Human
XX

AAV95609

standard;

RNA;

14

0

24-FEB-1999

(first entry)

Human c-fos target sequence nucleotide position 712.

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RESULT 409
AAQ41008
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                                Query Match
Best Local Similarity
Matches 13; Conserv
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                                                                                                                                    Modified eukaryotic cytoplasmic DNA virus prodn. - involdirect molecular cloning of modified DNA molecule contgcytoplasmic DNA virus genome
                                                                                                                                                                                                                                                                                                                                                                                                                                         AAQ41008
                                                                  Sequence 14 BP; 3 A;
                                                                                          The synthetic early/late promoter selP was used to express gp160-gene of the HIV-1 MN strain. The final plasmid is
                                                                                                                                                                                                                                26-AUG-1991;
20-JUL-1992;
                                                                                                                                                                                                                                                                                                                     CDS
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                                                                                                                                                                                                                                                                                                                                                                                                       02-AUG-1993
                                                                                                                                                                                                                                                                                                                                                                                                                        AAQ41008
                                                                                 pselP-gp160MN
                                                                                                                   Example; Fig 9.5.B; 206pp; English.
                                                                                                                                                                                                Dorner
                                                                                                                                                                                                                                                          25-AUG-1992;
                                                                                                                                                                                                                                                                          04-MAR-1993
                                                                                                                                                                                                                                                                                           AU9221269-A
                                                                                                                                                                                                                                                                                                                                              Synthetic
                                                                                                                                                                                                                                                                                                                                                             Plasmid; cloning;
                                                                                                                                                                                                                                                                                                                                                                                      Sequence around
                                                                                                                                                                      P-PSDB; AAR34645
                                                                                                                                                                               WPI; 1993-126461/16.
                                                                                                                                                                                                                (IMMO ) IMMUNO AG.
                                                                                                                                                                                                                                                                                                                                                                             gp60MN
                1811
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12;
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\mathbf{\mu}
                CCGTGGCCGTGAAG 1824
                                                                                                                                                                                                                                                                                                                                                                                                                                          standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGACTACYTGGAG 3
CCATGGCCGTGAAG 14
                                                                                                                                                                                                Falkner FG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                       (first
                                                                                                                                                                                                                                 91US-0750080.
92US-0914738.
                                                                                                                                                                                                                                                          92AU-0021269.
                                                                                                                                                                                                                                                                                                                                                                                       translational start codon
                                                                                                                                                                                                                                                                                                           /*tag=
                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                               restriction site;
                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA;
                                        0.9%;
                                                                                                                                                                                                                                                                                                                                                                                                        entry)
                                                                  4 C; 5 G; 2 T; 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                           14
                                                                                                                                                                                               Pfleiderer M,
                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1;
                                        Score 12.4; DB 1;
Pred. No. 2.2e+02;
                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                               88
                                                                                                                                                                                                Scheiflinger
                                                                                                                                                                                                                                                                                                                                                                                       of modified
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                                                Length
                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                       involves
                                                                                                                                                                                                                                                                                                                                                                                       gp160-gene
                                                   14;
                                                                                                     the
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                                  Gaps
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AAV97202/c
                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                        Matches 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention describes an enzymatic nucleic acid molecule which specifically cleaves RNA derived from a c-fos gene. AAV95401 to AAV95540 and AAV95541 to AAV95584 represent hammerhead ribozymes and hairpin ribozymes, respectively, which specifically cleave human c-fos. AAV95261 to AAV95400 and AAV95585 to AAV95628 represent human c-fos target sequences. The enzymatic nucleic acid molecules can be used for treating cancer associated with elevated levels of c-fos oncogene, especially leukaemias, neuroblastomas and lung, breast and colon cancers. The ribozymes may also be used as diagnostic tools to examine genetic drift and mutations within diseased cells, or to detect the presence of c-fos RNA in a cell.
24-NOV-1997;
28-JAN-1997;
                                       14-JAN-1998;
                                                                                            WO9832843-A2
                                                                                                                      Solanum tuberosum.
                                                                                                                                             flower formation;
                                                                                                                                                         Solanidine; glucosyltransferase; potato; citrate synthase; target; hammerhead ribozyme; hairpin ribozyme; alkaloid biosynthesis;
                                                                                                                                                                                                  Potato citrate synthase target sequence position 539.
                                                                                                                                                                                                                              01-MAR-1999
                                                                                                                                                                                                                                                          AAV97202;
                                                                                                                                                                                                                                                                                 202/c
AAV97202 standard; RNA; 14 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Enzymatic nucleic acid molecules which derived from a c-fos gene - useful for to levels of c-fos, especially cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23-JAN-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mutation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; c-fos; hammerhead ribozyme; hairpin ribozyme; target site; cancer; oncogene; leukaemia; neuroblastoma; diagnosis; genetic drift;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO9832846-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (RIBO-) RIBOZYME
                                                                                                                                                                                                                                                                                                                                                                         2413 AAGCTGCTGAAGGA 2426
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                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page 53;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   diseased cell; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            McSwiggen JA,
                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP; 5 A; 3 C; 4 G; 2 U; 0 other;
                                                                                                                                                                                                                              (first entry)
97US-0979416.
97US-0036545.
                                       98WO-US00738
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PHARM INC
                                                                                                                                              cleavage; solanaceous plant; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  72pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                   0.9%;
78.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Stinchcomb DT;
                                                                                                                                                                                                                                                                                                                                                                                                        2
                                                                                                                                                                                                                                                                                                                                                                                                                      Score 12.4; DB Pred. No. 2.2e+
                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                   2.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       specifically cleave RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          treating conditions related
                                                                                                                                                                                                                                                                                                                                                                                                                                   1.
                                                                                                                                                                                                                                                                                                                                                                                                                                Length 14;
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CC alkaloids; or (ii) involved in flower formation. AAV95322 to AAV96334, CC and AAV96335 to AAV96354 represent potato solanidine glucosyltransferase CC hammerhead and hairpin ribozymes, respectively. AAV95325 to AAV959981, CC and AAV96355 to AAV96773 ropresent potato solanidine glucosyltransferase CC target sequences. AAV96773 to AAV97170, and AAV97171 to AAV97195 (C respectively. AAV96773 to AAV97170, and AAV97171 to AAV97195 (C respectively. AAV96773 to AAV97172, and AAV97196 to AAV97220 represent CC potato citrate synthase target sequences. Ribozymes of the present CC invention can be used to inhibit the synthesis of toxic alkaloids in CC solanaceous plants, particularly potato but also tomato, pepper, CC aubergine and ditura or to inhibit flowering in potato, lettuce, spinach, CC cabbage, brussel sprouts, arugula, kale, collards, chard, beet, turnip, CC sweet potato and turf grass. Also the ribozymes can be used for RNA CC manipulation in the same way that restriction endonucleases are for DNA, CR swell as to examine genetic drift and mutations in plants and to consensus sequences within a family of related genes, and being CC cataluric management at call, year, low consensus, and being consensus sequences within a family of related genes, and being
Sequence 14 BP; 3 A; 5 C; 1 G; 5 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      the expression of alkaloids; or (ii)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes enzymatic nucleic acid molecules with RNA-cleaving activity (e.g. ribozymes) which are capable of modulating the expression of plant genes: (i) involved in biosymthesis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New enzymatic nucleic acid(s) - useful biosynthesis or regulating flowering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1998-427939/36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-JAN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       54; Page 59;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Zwick
                                                 be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       79pp; English.
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                                              present at only
                                              very low
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              e.g.
                                                 concentrations
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                                   Query Match
Best Local S
Matches 13
                 2473 ATGATGATGAGGGA 2486
14
                                   13;
                                            Similarity
ATGATGATCAGGGA 1
                                    Conservative
                                           0.9%;
                                   <u>,</u>
                                           Score 12.4; DB 1;
Pred. No. 2.2e+02;
                                   Mismatches
                                                    Length 14;
                                    Indels
                                   0,
                                   Gaps
                                   0
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PF PD XXX
                                                                                                        RESULT 412
                                                                       Human TIE-2 target site SEQ ID NO:2432.
                                                                                19-JUN-2000
                                                                                        AAA19206;
                                                                                                AAA19206 standard; RNA; 14
                                                                                (first entry)
                                                                                                ВP
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Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis; integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme; hammerhead ribozyme; angiogenic factor; cytostatic; antidiabetic; ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD; dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis; age related macular degeneration; inflammation; neovascular glaucoma; myopic degeneration; psoriasis; verruca vulgaris; angiofibroma; myopic degeneration; psoriasis; verruca vulgaris; angiofibroma; myopic selerosis; pot-wine stain; Sturge Weber syndrome; Homo sapiens Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss

24-MAR-1999; 07-OCT-1999

99WO-US06507

WO9950403-A2

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RESULT 413
AAA09609
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes enzymatic nucleic acid molecules with CC RNA cleaving activity, which specifically cleave RNA encoded by an aryl CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3 CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT, CC and AAA17168 to AAA17560 and AAA17622 represent ribozyme sequences for ARNT, CC corresponding target sequences; AAA17685 to AAA18385 and AAA19087 to CC AAA19154 represent ribozyme sequences for Tie-2, and AAA19087 to CC AAA19125 to AAA21922 represent their corresponding target sequences; CC AAA19123 to AAA2161 and AAA21501 to AAA2155 represent ribozyme cC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and CC AAA21596 to AAA21688 represent their corresponding target sequences; CC AAA21689 to AAA21688 represent their corresponding target sequences for integrin subunit beta 3, and AAA22476 to AAA2362 represent ribozymes of CC AAA21689 to AAA2167 and AAA2363 to AAA2342 represent their corresponding target sequences. The ribozyme of the invention are used for modulating the synthesis, expression and/or CC corresponding target sequences. The ribozymes of CC corresponding target sequences. The ribozyme sequences and corresponding target sequences. The ribozymes of CC corresponding target sequences. The ribozymes are corresponding target sequences. The ribozymes are corresponding target sequences. The ribozymes are corresponding target sequences. The ribozymes corresponding target sequences. The ribozymes are corresponding target sequences. The ribozymes corresponding target sequences. The ribozymes corresponding target sequences. 
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                  24-MAR-2000; 2000WO-US07979
                                                                  28-SEP-2000
                                                                                                         WO200056901-A2
                                                                                                                                                  Synthetic
                                                                                                                                                                                               primer;
                                                                                                                                                                                                               Linear expression element; circular expression element; LEE; CEE;
gene function; antigen; promoter function; vaccine; antibody production;
                                                                                                                                                                                                                                                                                    Primer SEQ ID 3 used in LEE and CEE production.
                                                                                                                                                                                                                                                                                                                               29-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                    AAA09609 standard; RNA; 14 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 14 BP; 4 A; 1 C; 4 G; 5 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 56; Page 139; 305pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel ribozymes for modulating the synthesis, expression and/or stability of an mRNA encoding an angiogenic factors {\hspace{1.5cm}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          27-MAR-1998;
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                                                                                                                                                                                               88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               UAGCAGAUUUUGGA 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Roberts E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98US-0079678
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Jarvis T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 12.4; DB 1;
Pred. No. 2.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Coeshott C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    McSwiggen JA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
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RESULT 414
AAAO9611/c
ID AAAO96
XX AAAO97
XX Prime
XX Line;
XW Line;
XW Gene
XX Prim
XX Prim
XX Prim
XX Synt
XX Prim
XX Synt
XX Synt
XX 24-
PR 24-
PR 24-
PR 24-
PR 24-
PR 31-
XX PR 31-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             expression element (LEE or CEE). The method comprises obtaining a DNA segment consisting of an open reading frame (ORF) and linking the ORF to a promoter and a terminator. The LEEs and CEEs are useful for screening gene function, biological effects of gene functions, antigens and promoter functions. LEEs and CEEs are useful for producing antibodies to an ORF and also in developing immunological reagents, and may be used in the production of vaccines. Sequences AAA09607-A09611 represent primers
                                                  Producing a linear or circular expression element useful for a number of molecular biology protocols, comprises obtaining a DNA segment consisting of an open reading frame and linking it to a promoter and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAA09611;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Producing a linear or circular expression element useful for a number of molecular biology protocols, comprises obtaining a DNA segment consisting of an open reading frame and linking it to a promoter and terminator
                                                                                                                                                                            WPI; 2000-628266/60.
                                                                                                                                                                                                                              Sykes KF, Johnston
                                                                                                                                                                                                                                                                                                                                                                             24-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                     24-MAR-2000; 2000WO-US07979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200056901-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Linear expression gene function; ant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Primer SEQ ID 5 used in LEE and CEE production
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-JAN-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAA09611 standard; RNA; 14 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              disclosed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This invention relates to the production of a linear or circular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Page 116; 117pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2000-628266/60.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sykes KF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-MAR-1999;
31-MAR-1999;
                                                                                                                                                                                                                                                                                       (TEXA ) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (TEXA ) UNIV TEXAS SYSTEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            госат
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14 BP; 5 A; 0 C; 4 G; 5 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUGAUGAUGAUGAU 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Johnston SA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                             TEXAS SYSTEM
                                                                                                                                                                                                                                                                                                                                                  99US-0125864.
99US-0127222.
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99US-0127222.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antigen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               element; circular expression element; LEE; tigen; promoter function; vaccine; antibody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.9%;
                                                                                                                                                                                                                                    SA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 12.4; DB 1;
Pred. No. 2.2e+02;
4; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 14;
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Disclosure;

Page 117;

117pp; English.

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RESULT 415
AAA89885
Query Match
Best Local Similarity
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Best Local
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26-AUG-1991;
20-JUL-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         expression element (LEE or CEE). The method comprises obtaining a DNA segment consisting of an open reading frame (ORF) and linking the ORF to a promoter and a terminator. The LEEs and CEEs are useful for screening gene function, biological effects of gene functions, antigens and promoter functions. LEEs and CEEs are useful for producing antibodies to an ORF and also in developing immunological reagents, and may be used in the production of vaccines. Sequences AAA09607-A09611 represent primers
                                                                                                                fowlpox virus for generating or priming an immune response against the heterologous protein in a vertebrate. Suitable proteins include HIV proteins such as HIV gp160, HIV Gag and HIV Gag-Pol proteins. The present sequence was associated with the generation or use of the present sequence.
                                                                                                                                                                                                                                                                                                 Use of modified vaccinia virus and priming an immune response against
                                                            Sequence
                                                                                                 modified viruses
                                                                                                                                                                                                 The present invention relates to the use of modified vaccinia virus
                                                                                                                                                                                                                                           Example
                                                                                                                                                                                                                                                                                                                                                                                                                        Pfleiderer M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22-MAY-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15-AUG-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gag-pol;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Vaccinia; fowlpox; virus; immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA sequence around start codon of modified gp160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAA89885
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAA89885 standard; DNA; 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        disclosed in the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (IMMO) IMMUNO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1882
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14
                                                                                                                                                                                                                                       9; Fig
                                                                                                                                                                                                                                                                                                                                                                AAB15068
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                                                            BP; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 5 A; 4 C; 0 G; 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       94US-0358928.
91US-0750080.
92US-0914738.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AG.
                                                                                                                                                                                                                                         99; 171pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                          Falkner
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                                                            A
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0.9%;
92.9%;
                                                            4 C; 5 G; 2 T; 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ВP
                                                                                                                                                                                                                                                                                                                                                                                                                      Scheiflinger F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
  Score 12.4; DB 1;
Pred. No. 2.2e+02;
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Pred. No. 2.2e+02;
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o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          response;
                                                                                                                                                                                                                                                                                                 fowlpox virus for generating or
HIV gp160, HIV Gag and HIV Gag-Pol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HIV;
                                                                                                                                                                                                                                                                                                                                                                                                                          Dorner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gp-160;
                  Length 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 14;
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AAS12903
ID AAS1299
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XX 19-DEC
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                                                                                                                    Matches
                                                                                                                                                                               Query Match
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                                                                                                                                                                                                                                                                                                The invention relates to a method for producing a modified eukaryotic cytoplasmic DNA virus by direct molecular cloning of a modified DNA molecular comprising a modified TNA molecular comprising a modified TNA wirus genome such as a vaccinia virus, containing a heterologous insert encoding a protein. The method involves molecularly cloning the DNA directly into a host cell via a unique restriction endonuclease cleavage site, to be packaged into infectious virions and then recovering them. The host cell is infected with a helper virus for this purpose. The method is useful for producing recombinant proteins and modified eukaryotic cytoplasmic DNA viruses such as poxviruses and iridoviruses found in vertebrates and insects. This sequence represents a DNA encoding a modified HIV gp160 peptide used in the construction of chimeric vaccinia viruses.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Producing recombinant protein using modified vaccinia viral expression system, comprises directly cloning heterologous insert encoding protein into the viral genome into unique restriction endonuclease cleavage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    unique restriction endonuclease cleavage site; infectious virion; ds; helper virus; poxvirus; iridovirus; vertebrate; multiple cloning site; human immunodeficiency virus glycoprotein 160MN; gp160MN; mutant.
                                                                                                                                                                                                                                            Sequence 14 BP; 3 A; 4 C; 5 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 9; Fig 9.5B; 172pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               26-AUG-1991;
20-JUL-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-JUL-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human Immunodeficiency Virus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Modified gp160MN peptide sequence DNA in vselP-gp160-virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAS12903 standard; DNA; 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Dorner F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19-DEC-1994;
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                                                                                                                    Local Similarity
                                                       1811 CCGTGGCCGTGAAG 1824
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                                                                                                                        Conservative
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92US-0914738
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                                                                                                                                              0.9%;
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                                                                                                                                                 Score 12.4;
Pred. No. 2.
                                                                                                                        Mismatches
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WO9523225-A2

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KW ENZ

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Best Local S
Matches 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a light-controlled adenylate cyclase which polypoptide extracted from the duplicate flagellum body of Euglena opertial peptide. The adenylate cyclase and the DNA are used in an in light switch. The current sequence represents a light-controlled adenylate cyclase associated primer.
                   Respiratory Syncytial Virus
                                                            transplant rejection; rheumatoid arturates, processions; HIV; myocardial ischaemia; Kawasaki disease; septic shock; HIV; myocardial ischaemia; Kawasaki disease; septic shock; HIV;
                                                                                                                atherosclerosis; myocardial infarction; strotransplant rejection; rheumatoid arthritis;
                                                                                                                                                   intercellular adhesion molecule; rel A; tumour necrosis factor; TNF-alpha; respirator; syncytial virus; RSV; bcr-abl; oncogene; translocation; chronic myelogenous leukaemia; CML; cancer; Philadelphia chromosome; inflammation; autoimmune disease;
                                                                                                                                                                                                                            gene expression; downregulation; interleukin-5; IL-5; ICAM-1;
                                                                                                                                                                                                                                               Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;
                                                                                                                                                                                                                                                                                     RSV 1B hammerhead ribozyme target sequence (nt. position 242).
                                                                                                                                                                                                                                                                                                                          25-MAR-2003
04-APR-1997
                                                                                                                                                                                                                                                                                                                                                                                   AAT56846;
                                                                                                                                                                                                                                                                                                                                                                                                                      AAT56846 standard; RNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 14 BP; 3 A; 1 C; 6 G; 4 T; 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New light-controlled adenylate cyclase, useful for in vivo light switch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-221713/28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (WATA/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Light-controlled adenylate cyclase; flagellum; PCR; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Light-controlled adenylate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-JUL-2002
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WATANABE M.
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(first entry)
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); Mismatches
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Pred. No. 2.2e+02;
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. 2.2e+02;
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                                                                          immune deficiency syndrome;
                                                                                                                                 stroke; restenosis;
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04-APR-1994;
07-APR-1994;
                                                                                                                                                                           The present sequence represents a preferred target sequence for an enzymatic nucleic acid (i.e. a ribozyme) which cleaves mRNA coding for a protein of respiratory syncytial virus (RSV) at the nucleotide base position indicated in the DE line. Regions of the mRNA that do not form secondary folding structures and that contain potential hammerhead and hairpin ribozyme cleavage sites were identified by computer analysis. Ribozymes directed against these mRNA sequences were designed and synthesised with modifications that improve their nuclease resistance. The ribozymes cleave the target sequences and can be used for treatment and diagnosis of RSV infection.
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Modak A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31-AUG-1995
                                                                                                                                                Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 2; Page 265; 407pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ribozymes having modified bases and methods
for use in inhibiting disease related genes
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04-NOV-1994;
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23-SEP-1994
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17-AUG-1994,
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15-AUG-1994;
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Pavco P, Beigleman L,
JD, Tracz D, Usman N,
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94US-0357577
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94US-0334847.
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94US-0316771.
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94US-0311486.
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94US-0291433.
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94US-0271280.
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94US-0222795.
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isky A, Kisich K, Matulic-adamic J, Mcswiggen
P, Beigleman L, Sullivan SM, Sweedler D;
cacz D, Usman N, Wincott FE, Woolf T;
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                                                                                         71.4%;
                                                                                                                                              3 C; 1 G; 3 U; 0 other;
                                                                                                            0.9%;
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                                                                                         Score 12.4; DB 1;
Pred. No. 2.4e+02;
                                                                        Mismatches
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                                                                                                            Length 15;
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                                                                                                                                                       The present invention describes a novel enzymatic nucleic acid (ENA) having a hammerhead motif (HM) comprising: (i) at least 5 ribose residues; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii) at least ten 2'-C-methyl modifications; and (iv) a 3'-end modification. The ENA's can inhibit collagenase and stromelysin production in the synovial membrane of joints for the treatment or prevention of arthritis, particularly osteoarthritis or rheumatoid arthritis. The ENA's can also be used to treat antigen presenting cells of a donor to induce tolerance in a recipient to an alloantigen of a donor. They can also be used for enhancing graft tolerance or for treating autoimmune disease, and for treating allergies and other inflammatory conditions. The ENA's can also be used in diagnosis. Ribozyme therapy impacts on the expression of stromelysin without introducing the non-specific effects upon gene expression which accomment treatment with vorticals.
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04-MAY-1995;
07-JUL-1995;
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13-DEC-1994;
23-DEC-1994;
23-DEC-1994;
23-DEC-1994;
17-FEB-1995;
20-APR-1995;
                                                                                                     expression which accompany treatment with retinoids and dexamethasone. The concentration of ribozyme required to affect a therapeutic treatment is lower than that required of antisense molecules, and is highly specific. The present sequence is used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI;
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Beigelman L, Karı
Matulic-Adamic J,
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                                                                                                                                                                                                                                                                                                                                                                       Claim
                                                                                                                                                                                                                                                                                                                                                                                                  Enzymatic nucleic acid molecules having a hammer-head motif - used for the treatment of arthritis, induction of graft tolerance or treatment of auto-immune diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-JUL-1995;
07-AUG-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human CD40 hammerhead ribozyme target
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                   Similarity
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                                                                                                                                                                                                                                                                                                                                                                    Page 204; 307pp; English
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      Conservative
                                                              BP; 2
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C J, Jarvis T,
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95US-0390850.

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95US-0512861.
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A, Modak A, Usman
s T, Thompson JD,
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2.4e+02;
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ncott F;
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    Indels
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RESULT 420
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AAT496 CC C Libid CC C Libid CC C Libid CC C AAT496 CC C AAT496 CC C Libid CC C 
                                                          CC AAT49608-T49863 represent target sequences for the human cholesterol CC ester transfer protein (CETP) hammerhead (HH) ribozymes (see AAT49881-T50137). CETP is a 74 kD glycoprotein that facilitates neutral CC lipid transfer between plasma lipoproteins. The numbering of the targets Crefers to the position of the cleavage site in full length CETP. The CC ribozyme binds to 5 nucleotides either side of this site, provided the Sequence UH is immediately upstream. The ribozymes are able to cleave CC mRNA, from the gene encoding CETP, thereby blocking synthesis and/or CC expression of the mRNA. By inhibiting CETP, the reverse cholesterol CC transport (RCT) pathway can be inhibited (or eliminated) thereby company the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. CC (HDL), prolonging HDL half life, and therefore increasing HDL levels. CC (HDL), prolonging HDL half life, and therefore increasing HDL levels. CC (HDL), prolonging HDL half life, and therefore increasing HDL levels. CC (HDL), prolonging HDL half life, and therefore increasing HDL levels. CC (HDL), prolonging HDL half life, and therefore increasing HDL levels. CC (HDL), prolonging HDL half life, and therefore increasing HDL levels. CC (HDL), specifically familial hypercholesterolaemia, thereocomy and angioplastic restenosis. By CC (HDL), the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and to detect CETP mRNA. As the HH ribozymes can also be used diagnostically to study genetic drift and mutations in diseased CC cells, and to detect CETP mRNA. As the HH ribozymes target specific cells, and to detect CETP mRNA. As the HH ribozymes target specific
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA - useful for preventing or treating initial development, progression or regression of vascular diseases, esp. familial
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 4;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        23-DEC-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11-DEC-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  04-JUL-1996.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human CETP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAT49651 standard; RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1887
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RIBOZYME PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Page
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        72pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
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Length 15;

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Best Local
                                                                                                                                                      The present invention describes nucleic acid molecules which modulate the synthesis, expression and/or stability of a mRNA encoding 1 or more receptors of vascular endothelial growth factor (VBGP). A patient (preferably human) having a condition associated with the level of the fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be treated by administering the nucleic acid molecule or the expression vector to the patient. AAX67275 to AAX75752 represent specific examples
                                                                                                                                                                                                                                                                                                                                Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA stability - useful for treating e.g. tumour angiogenesis, psoriasis, rheumatoid arthritis, etc., in a human patient
                                                                                                               Sequence 15
                                                                                                                                                                                                                                                                                                       Example 9; Page 191; 218pp; English
                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1997-259017/23
                                                                                                                                                                                                                                                                                                                                                                                                                      Escobedo J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-JAN-1996;
26-OCT-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-OCT-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-MAY-1997.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavege; tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease; fms-like tyrosine kinase 1; kinase insert domain containing receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human flt-1 and KDR hammerhead ribozyme target site #57.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-JUL-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    (CHIR ) CHIRON CORP.
                                                                      госат
                                                                                                                                             nucleic acid
                            1822 AAGATGTTGAAAGA 1835
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    RIBOZYME PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGACAGGTAGCAGT 2
 AAAAUGUUGAAAGA 14
                                                                                                                BP; 9
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                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                      McSwiggen
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95US-0005974.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         96WO-US17480
                                                                                                                                          molecules from the present invention.
                                                                                                               A; 0 C; 3 G; 3 U; 0 other;
                                                                   0.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                         Pavco P,
                                                       Score 12.4; DB
Pred. No. 2.4e+(
3; Mismatches
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0; Mismatches
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Pred. No. 2.4e+02;
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                                                         .4e+02;
es 1;
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RESULT 422 AAT99048/c

RESULT 423 AAZ07078 ID AAZ070

AAZ07078 standard; DNA; 15

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Matches

13;

Conservative

0;

1856 14

TTTCTGATCTGGTG 1869

Query Match
Best Local Similarity

0.9%;

Score 12.4; DB 1; Pred. No. 2.4e+02; Mismatches

1;

Length 15; Indels

<u>.</u>

Gaps

0

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This sequence represents a probe for a wild type HIV reverse CC transcriptase (RT) gene fragment. This sequence can be used in the method CC of the invention for determining the susceptibility to antiviral drugs of CC viruses which contain RT genes and are present in a biological sample. It CC comprises: (1) releasing, isolating or concentrating the polynucleic CC acids present with at least one suitable primer pair; (3) hybridising the golynucleic acids of step (1) or (2) with at least two RT gene probes. CC the probes being applied to known locations on a solid support, and are CC capable of simultaneously hybridising to their respective target regions under appropriate hybridisation and wash condition allowing the detection of homologous targets, or with the probes hybridising specifically with a sequence complementary to any of the target sequences; (4) detecting the CC hybrids formed in step (3); and (4) inferring the nucleotide sequence at the codons of interest (codons 38-44, 47-53, 65-72, 73-77, 148-154, CC 180-187, 212-216, and 217-220), and/or the amino acids of the codons of codons of interest and/or antiviral drug resistance spectrum, and possible the type obtained in step (4). The method is specifically used to detect antiviral crug resistant strains of viruses containing RT genes, especially HIV creating the method can also be used for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Reverse transcriptase gene; HIV; RT gene; antiviral drug susceptibility; virus susceptibility; antiviral drug resistant viral strain; retrovirus; Hepadnaviridae; HIV RT genotyping; probe; ss.
Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 13; Page 39; 59pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Determining susceptibility to antiviral drugs of reverse transcriptase containing viruses - useful for genotyping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-JUN-1996;
26-JAN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                31-JUL-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Louwagie J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (INNO-) INNOGENETICS NV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         immunodeficiency virus type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antiviral resistant HIV
                                      HIV RT.
 BP; 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
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96EP-0870005.
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 5 C; 1 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        induced HIV RT gene
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      genotyping HIV RT
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RESULT 424
AAX57566
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Best Local S
Matches 13
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           AAX57566
                               AAX57566 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                               Branched compositions for improving the solubility of synthetic polymers or minimizing or eliminating polymer self-aggregation, particularly in peptide nucleic acids
                                                                                                                                                                                              Sequence 15 BP; 5
                                                                                                                                                                                                                                                                                                                                                         Example 12; Page 40; 81pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1999-479032/40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Coull JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-JAN-1999;
27-JAN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Peptide nucleic acid; PNA; polymer; solubility; modulation; synthesis; purification; analysis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Peptide nucleic acid oligomer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          07-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAZ07078;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (BOST-) BOSTON PROBES
                                                                                                                                                                                                                    therapeutic applications. The plant in the exemplification of the
                                                                                                                     1882 ATGATGAAGATGAT 1895
                                                                                               \mathbf{L}
                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gildea
                                                                                                                                             Conservative
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98US-0072772.
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/*tag=
/note=
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                                                                                                                                                                                             A; 0 C; 5 G; 5 T; 0 other;
                                                                                                                                                      0.9%;
92.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "a is modified to Flu-OE-a where Flu i 5-(6)-carboxyfluorescein, O is 8-amino-3,6-dioxaoctanoic acid and E uncharged ether modifying moiety"
                                  15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g is modified to uncharged ether m
                                  ВP
                                                                                                                                                                                                                                                                                                                                                        English.
                                                                                                                                          Pred. No. 2.46
); Mismatches
                                                                                                                                                                  Score 12.4; DB 1;
                                                                                                                                                                                                                               The present sequence represents a PNA
                                                                                                                                                                                                                    present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  o g-E-NH2,
modifying
                                                                                                                                                        4e+02
                                                                                                                                                                  Length 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   which is an amidated moiety"
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AC XXX PRX XX P
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AAZ59271/c
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Best Local S
Matches 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequences AAX57562-X57571 represent antisense oligonucleotides targeted to a region spanning 4-9 codons downstream of the AUG translation initiation codon of the human insulin-like growth factor. I receptor (IGF-IR) gene. The antisense oligonucleotides inhibit the expression of IGF-IR, which in turn induces apoptosis, especially in a tumour cell. The oligonucleotides can be administered via a liposome.
                                                                              24-JUN-1998;
19-OCT-1998;
                                                                                                                                                                  23-JUN-1999;
                                                                                                                                                                                                                         29-DEC-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                   Haemopoietin receptor family; NR8; antibody; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAZ59271 standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 15 BP; 4 A; 4 C; 4 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 16; 23pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human insulin-like growth factor-1 receptor gene antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     04-NOV-1997;
                       (CHUG-) CHUGAI RES INST MOLECULAR MEDICINE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-MAY-1999.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1488 GAAGCCAGACTTCA 1501
                                                                                                                                                                                                                                                                                                                                     sapiens
                                                                                                                                                                                                                                                                                                                                                                                            formation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            _
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGAGCCAGACTTCA 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          numan; insulin-like growth factor-1 receptor; IGF-1R;
inhibition; induction; apoptosis; tumour; liposome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PHARM CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                 98JP-0214720.
98JP-0297409.
                                                                                                                                                                  99WO-JP03351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     97US-0963886
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98WO-US23418.
                                                                                                                                                                                                                                                                                                                                                                                      disorder; fusion protein; probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #5 to insulin-like growth factor I receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <u>..</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 12.4; DB 1;
Pred. No. 2.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                liposome; ss.
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RESULT 426
AAZ59273;
ID AAZ59273;
XX
AC AAZ59273;
XX
AC AAZ59273;
XX
DT 24-MAY-2000 (first entry)
XX
DE Human NR8 gene probe #16.
XX
DE Homo sapiens.
XX
W Haemopoietin receptor family; NR
KW Homo sapiens.
XX
PN W09967290-All.
XX
PN W0996729
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Matches
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                                                     The invention relates to the isolation of sequences encoding human haemopoietin receptor protein family NR8 genes. The NR8 family sequences were initially searched comparison on a nucleic acid database with the nucleic acid probe sequence TGGACYNNNTGGAGY encoding the amino acid sequence Trp-Ser-Xaa-Trp-Ser. The sequences AAZ559258-Z59300 and AAZ90816-Z90925 represent specific examples of probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sequences used in the search. Antibodies to the NR8 family proteins are used for the diagnosis of blood formation disorders. Compounds identified as binding to the proteins are used for the treatment of such disorders.
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                                                                                                                                                                                                                                                  Example 1; Page 38; 176pp; Japanese.
                                                                                                                                                                                                                                                                                                          Hemopoietin receptor protein family formation disorders -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hemopoietin receptor protein family NR8 formation disorders -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nomura H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           госат
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CHUGAI RES INST MOLECULAR MEDICINE INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; 1 C; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      family; NR8; antibody;
der; fusion protein; pro
        of blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No.
0: Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     G; 4 T; 0 other;
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                                 Antibodies to
        formation disorders.
                                                                                                                                                                                                                                                                                                                                      NR8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         probe;
                                    the NR8 family proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u>ب</u>
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                                                                                                                                                                                                                                                                                                                                      for diagnosis of blood
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     Compounds
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     identified
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RESULT 428 AAZ59282/c ID AAZ592 XX

AAZ59282

standard; DNA;

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RESULT 427
AAZ59278/c
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                                          Best Loc
Matches
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Best Local
                                                                                                       haemopoietin receptor protein family NR8 genes. The NR8 family sequences were initially searched for comparison on a nucleic acid database with the nucleic acid probe sequence TGGAGNY encoding the amino acid sequence TTp-Ser-Xaa-TTp-Ser. The sequences AZ59258-Z59300 and AZ90816-Z59925 represent specific examples of probe sequences used in the search. Antibodies to the NR8 family proteins are used for the diagnosis of blood formation disorders. Compounds identified as binding to the proteins are used for the treatment of such disorders.
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AAZ59278
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                                                                                    Sequence
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                                                                                                                                                                                                                                      Hemopoietin receptor protein family NR8 used formation disorders -
                                                                                                                                                                                                                                                                                           Nomura H,
                                                                                                                                                                                                                                                                                                                                    24-JUN-1998;
19-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                              WO9967290-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                         blood
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                                                                                                                                                                                                                                                                                                                                                                     23-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                          29-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Haemopoietin receptor family; NRB; antibody; diagnosis;
                                                                                                                                                                                                                                                                                                                (CHUG-) CHUGAI RES
                                                    Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  binding to the proteins are used for the treatment of such disorders.
                     1581
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14
                                                                                                                                                                                                                                                                                                                                                                                                                                                         formation
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                                          l Similarity
                     CTCCATGAACTCCA 1594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTCCATGGACTCCA
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                                                                                     15
 CTCCATGCACTCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      standard; DNA;
                                         0.9%;
ilarity 92.9%;
Conservative
                                                                                     BP;
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98JP-0297409.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       disorder; fusion protein;
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92.9%;
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                                          Score 12.4; I
Pred. No. 2.46
0; Mismatches
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Pred. No. 2.
                                                                                     4 T;
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                                                                                     0 other;
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                                                    2.4e+02;
                                                               DB 1;
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                                                              Length 15;
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                                           Indels
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RESULT 429
AAZ59300/c
ID AAZ59300 standard; DNA; 15 BF
XX
AC AAZ59300;
XX
DT 24-MAY-2000 (first entry)
XX
DE Human NR8 gene probe #43.
XX
DE Homo poietin receptor family;
XX
KW blood formation disorder; fus
XX
PN W09967290-A1.
XX
PP 29-DEC-1999.
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PF 23-JUN-1999; 99WO-JP03351.
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tormation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hemopoietin receptor protein family NR8 used for diagnosis of blood
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19-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                       CTCCATGAACTCCA 1594
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                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 3 A; 1 C; 7 G; 4 T; 0 other;
                                                                                                                      receptor family; NR8; antibody; diagnosis; ion disorder; fusion protein; probe; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 the proteins are used for the treatment of such disorders.
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98JP-0297409
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Pred. No. 2.4e+02;
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AAZ90836/c
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Best Local Similarity
Matches 13; Conserv
The invention relates to the isolation of sequences haemopoietin receptor protein family NR8 genes. The sequences were initially searched for comparison on
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                                                                                              Example 1; Page 40; 176pp; Japanese
                                                                                                                                                  Hemopoietin receptor protein formation disorders -
                                                                                                                                                                                                                            WPI; 2000-116933/10.
                                                                                                                                                                                                                                                                        Nomura H,
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19-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   as binding to the proteins are used for the treatment of such disorders.
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19-OCT-1998;
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                                                                                                                                                                                                                                                                          Maeda
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98JP-0297409.
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98JP-0297409.
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                                                                                                                                                                         family NR8 used for diagnosis of blood
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Pred. No. 2.4e+02;
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NR8 famil
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Matches
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                                                                                                                                 The invention relates to the isolation of sequences encoding human haemopoietin receptor protein family NR8 genes. The NR8 family sequences were initially searched for comparison on a nucleic acid database with the nucleic acid probe sequence TGAGYUNUNTGAGY encoding the amino acid sequence TTp-Ser-Xaa-TTp-Ser. The sequences hAZ59258-Z59300 and AAZ90816-Z90925 represent specific examples of probe sequences used in the search. Antibodies to the NR8 family proteins are used for the diagnosis of blood formation disorders. Compounds identified as binding to the proteins are used for the treatment of such disorders.
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                                                                                                                                                                                                                                                                                                                                            WPI;
                                                                                                          Sequence 15
                                                                                                                                                                                                                                                                        Example 1; Page 41; 176pp; Japanese.
                                                                                                                                                                                                                                                                                                               Hemopoietin receptor protein family NR8
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19-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human NR8
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                          CTCCATGAACTCCA 1594
 CTCCATGCACTCCA 1
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                                                                                                           BP; 3 A; 1 C; 7 G; 4 T; 0 other;
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98JP-0297409.
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); Mismatches
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                                                                 2.4e+02;
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RESULT 433
AAZ90861/c
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AAZ90846/c
ID AAZ908
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                                                                                  Human NR8 gene probe
                     Homo sapiens.
                                                           Haemopoietin receptor family; NR8; antibody;
                                                                                                             24-MAY-2000
                                                                                                                                     AAZ90861;
                                                                                                                                                           AAZ90861
                                                                                                                                                                                                                                                                                                                       Sequence 15 BP; 4 A; 0 C; 6 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1; Page 41; 176pp; Japanese
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-JUN-1998;
19-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human NR8 gene probe
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                                                                                                            (first entry)
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98JP-0297409.
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                                              disorder; fusion protein;
                                                                                                                                                                                                                                                                                    0.9%;
                                                                                    #89
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                                                                                                                                                                                                                                                                         0,
                                                                                                                                                                                                                                                                                    Score 12.4; DB 1;
Pred. No. 2.4e+02;
                                                                                                                                                                                                                                                                          Mismatches
                                               probe;
                                                                                                                                                                                                                                                                                                Length 15;
                                                                                                                                                                                                                                                                          Indels
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Best Local S
Matches 13
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          Hemopoietin receptor protein family NR8 used formation disorders -
                                               WPI; 2000-116933/10
                                                                    Nomura H,
                                                                                                                     24-JUN-1998;
19-OCT-1998;
                                                                                                                                                        23-JUN-1999;
                                                                                                                                                                                29-DEC-1999.
                                                                                                                                                                                                         WO9967290-A1
                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                        Haemopoietin red
                                                                                                                                                                                                                                                                                           Human NR8
                                                                                                                                                                                                                                                                                                                  24-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                    AAZ90870 standard; DNA; 15 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 1; Page 42; 176pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hemopoietin receptor protein family NR8 used for diagnosis of blood formation disorders - {\sf rec}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2000-116933/10
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19-OCT-1998;
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                                                                                            (CHUG-) CHUGAI RES INST MOLECULAR MEDICINE
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mes 13; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                        1581
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                                                                                                                                                                                                                                                                                          gene
                                                                      Maeda M
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ilarity 92.9%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 3 A; 1 C; 7 G; 4 T; 0 other;
                                                                                                                                                                                                                                                   receptor family; NR8; antibody; diagnosis; ion disorder; fusion protein; probe; ss.
                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                     98JP-0214720.
98JP-0297409.
                                                                                                                                                                                                                                                                                          probe
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98JP-0297409.
                                                                                                                                                        99WO-JP03351.
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                                                                                                                                                                                                                                                                                           #98.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 12.4; DB 1;
Pred. No. 2.4e+02;
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                    for diagnosis of blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 15;
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RESULT 435
AAZ90883/c
ID AAZ908
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                          Query Match
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                                                                                                                                     The invention relates to the isolation of sequences encoding human haemopoietin receptor protein family NR8 genes. The NR8 family sequences were initially searched for comparison on a nucleic acid database with the nucleic acid probe sequence TGGAGYNNNTGGAGY encoding the amino acid sequence Trp-Ser-Xaa-Trp-Ser. The sequences AAZ59258-Z59300 and AAZ90816-Z59925 represent specific examples of probe sequences used in the search. Antibodies to the NR8 family proteins are used for the diagnosis of blood formation disorders. Compounds identified as binding to the proteins are used for the treatment of such disorders.
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                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24-JUN-1998;
19-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human NR8 gene probe #111.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAZ90883;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hemopoietin receptor protein family NR8 used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2000-116933/10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nomura H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-JUN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           formation disorders
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local
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13; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                Page 43; 176pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Maeda
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nilarity 92.9%;
Conservative
                                                                                      BP; 3 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      receptor family; NR8; antibody; diagnosis;
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98JP-0297409
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  0.9%;
                                                                                      1 C; 7 G; 4 T; 0 other;
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Score 12.4; DB 1;
Pred. No. 2.4e+02;
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Pred. No. 2.4e+C
); Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           protein;
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                             DB 1;
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                             15;
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Matches

Conservative

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Mismatches

Indels

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Best Local Similarity

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ARESULT 436
AAZ90895/c
ID AAZ908
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AC AAZ908
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CC Sequen
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CC Sequen
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ID AAZ9
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                                                                                                                                             RESULT 437
                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                               sequences were initially searched for comparison on a nucleic acid database with the nucleic acid probe sequence TGGAGYNNNTGGAGY encoding the amino acid sequence Trp-Ser-Xaa-Trp-Ser. The sequences AAZ59258-Z59300 and AAZ90816-Z90925 represent specific examples of probe sequences used in the search. Antibodies to the NR8 family proteins are used for the diagnosis of blood formation disorders. Compounds identified as binding to the proteins are used for the treatment of such disorders.
Haemopoietin receptor family; NR8; antibody; diagnosis;
                             Human NR8
                                                        24-MAY-2000
                                                                                     AAZ90902;
                                                                                                                 AAZ90902 standard; DNA; 15 BP
                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to the isolation of sequences encoding human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 1; Page 44; 176pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hemopoietin receptor protein family NR8 used formation disorders -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2000-116933/10
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19-OCT-1998;
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                            gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Maeda M;
                                                                                                                                                                                                                                                                                                     BP; 3 A; 1 C; 7 G; 4 T; 0 other;
                                                                                                                                                                                                                                              Conservative
                                                       (first entry)
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                            probe
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98JP-0297409.
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                                                                                                                                                                                                                                                          0.9%;
                             #130
                                                                                                                                                                                                                                                                                                                                                                                                                                    protein family NR8 genes. The NR8 family
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                                                                                                                                                                                                                                             Score 12.4; DB 1;
Pred. No. 2.4e+02;
n. Mismatches 1;
                                                                                                                                                                                                                                           Pred. No. 2.46
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for diagnosis of
                                                                                                                                                                                                                                                                         Length 15;
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RESULT 438
AAZ90906/c
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Best Local Similarity
Matches 13; Conserv
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                                                                                                                                                                                                                                       Human NR8 gene probe
             Nomura H,
                                                            24-JUN-1998;
19-OCT-1998;
                                                                                                                          29-DEC-1999
                                                                                                                                                                                                     blood
                                                                                                                                                                                                               Haemopoietin
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19-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               blood formation disorder; fusion protein; probe; ss.
                                                                                                 23-JUN-1999;
                                                                                                                                                   WO9967290-A1
                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hemopoietin receptor protein family NR8 used for diagnosis of blood
formation disorders -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nomura H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23-JUN-1999;
                                    (CHUG-) CHUGAI RES INST MOLECULAR MEDICINE
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                                                                                                                                                                                                                                                                                                                                                                                                       1581
                                                                                                                                                                                                   formation
                                                                                                                                                                                                                                                                                                                                                                                14 CTCCAGGAACTCCA 1
                                                                                                                                                                                                                                                                                                                                                                                                      CTCCATGAACTCCA 1594
                                                                                                                                                                                                                                                                                                                   standard; DNA; 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Maeda M;
             Maeda
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 2 A; 3 C; 6 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                               receptor family; NR8; antibody; diagnosis;
                                                                                                                                                                                                                                                                 (first entry)
                                                              98JP-0297409
                                                                         98JP-0214720
                                                                                                   99WO-JP03351
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98JP-0297409.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99WO-JP03351
                                                                                                                                                                                                  disorder; fusion protein; probe; ss.
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92.9%;
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                                                                                                                                                                                                                                                                                                                   ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 12.4; DB 1;
Pred. No. 2.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
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WPI;

2000-116933/10

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RESULT 439
AAZ90908/c
ID AAZ909
XX AAZ909
XX AAZ909
XX Haemop
XX Haemop
KW Haemop
KW Blood
XX Homo s
XX Haemop
PF 23-JUN
XX 24-JUN
PR 24-JUN
PR 24-JUN
PR 24-JUN
PR 23-JUN
XX IOMUTA
XX Hemopc
PT Hemopc
PT Format
XX Exampl
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                   The invention relates to the isolation of sequences encoding human hasmopoiettin receptor protein family NR8 genes. The NR8 family sequences were initially searched for comparison on a nucleic acid database with the nucleic acid probe sequence TGGAGYNNNTGGAGY encoding the amino acid sequence Trp-Ser-Xaa-Trp-Ser. The sequences the acid sequence Trp-Ser-Xaa-Trp-Ser the sequences and AAZ90816-Z90925 represent specific examples of probe sequences used in the search. Antibodies to the NR8 family proteins are sequences used in the search. Antibodies to the NR8 family securitied sequences used in the search.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bequences were initially bounded and are used for the treatment of such disorders.
                                                                                                                                                                                                                                     Hemopoletin receptor protein family NR8 used for diagnosis of blood
                                                                                                                                                                                                                                                                                                            Nomura
                                                                                                                                                                                                                                                                                                                                                                            24-JUN-1998;
19-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                               23-JUN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Haemopoietin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAZ90908 standard; DNA; 15 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to the isolation of sequences encoding lamenopoietin receptor protein family NR8 genes. The NR8 family sequences were initially searched for comparison on a nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; Page 44; 176pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hemopoietin receptor protein family NR8 used for diagnosis of blood formation disorders -
                                                                                                                                                                                                                                                                                                                                            (CHUG-) CHUGAI RES INST MOLECULAR MEDICINE INC
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                 binding
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15
                                                                                                                                                                                                                         disorders
                                                                                                                                                                                       Page 44;
                                                                                                                                                                                                                                                                                                            Maeda
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 3 A; 3 C; 6 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    receptor family;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry
                                                                                                                                                                                                                                                                                                                                                                            98JP-0214720.
98JP-0297409.
                                                                                                                                                                                                                                                                                                                                                                                                                             99WO-JP03351.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  disorder; fusion
                                                                                                                                                                                                                                                                                                          3
                 proteins
                                                                                                                                                                                    176pp; Japanese
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                 are used
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Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NR8; antibody; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein; probe; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2.4e+02;
               the treatment
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                 such
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               disorders.
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RESULT 440
AAH26020/c
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Best Local
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                                                                                                                                                                                                                                                                           07-JUN-1996;
30-SEP-1993;
30-SEP-1994;
The present sequence is that of a stem-loop rat Syk antisense oligonucleotide (ODN). The loop domain consists of 3 tandemly joined antisense ODNs (see AAH26012-14), each targeted to a different region of rat Syk mRNA. Thus, the stem-loop antisense ODN can hybridise to 3 different sites of rat Syk mRNA. It was used in an experiment to demonstrate inhibition of histamine release from histamine-containing RBL-2H3 rat mast cells using Syk antisense ODNs. The invention provides a claimed method of inhibiting the release of a mediator from a Syk-producing cell by introducing into the cell an antisense construct that targets an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 15 BP; 2
                                                                                                                            Example 6; Fig 9; 35pp; English.
                                                                                                                                                 Inhibiting the release of a mediator from a Syk-producing cell, in gene therapy for treating inflammatory conditions or asthma, introducing into the cell Syk antisense oligonucleotides
                                                                                                                                                                                                WPI; 2001-380484/40.
                                                                                                                                                                                                                      Schreiber AD,
                                                                                                                                                                                                                                                                 07-JUN-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       stem_loop
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                                                                                                                                                                                                                                                                                                                                                                                                             modified_base
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                                                                                                                                                                                                                                            PENNSYLVANIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first
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93US-0129381.
94US-0316425.
95US-0483530.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    kinase; rat; antisense; asthma; gene therapy;
                                                                                                                                                                                                                                                                                                                         98US-0158980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                    /note=
58..60
/*tag=
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/*tag=
36..53
/*tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                          "phosphorothioate linkage"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 12.4;
Pred. No. 2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          phagocytosis;
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RESULT 441
AAD05867
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                                                                                         The patent relates to polymorphic variants of human cholinergic receptor, comuscarinic 3 (CHRM3) gene. The polymorphic variant comprises at least one single nucleotide polymorphisms selected from cytosine at PS1, adenine at PS2 or PS3, and cytosine at PS4. The invention also relates to a method for genotyping and haplotyping the CHRM3 gene for identification of cyariants. The polymorphic variant is useful for therapeutic purposes, for studying the expression and biological function of CHRM3. CC as well as for developing drugs targetting the CHRM3 protein.

CC The recombinant nonhuman organism transfected with the polymorphic cyariant is useful for studying expression of CHRM3 isogenes in vivo, containt is useful for studying expression of CHRM3 isogenes in vivo, containt is useful for studying expression of CHRM3 isogenes in vivo, containt is useful for studying expression of CHRM3 isogenes in vivo, containt is useful for studying expression of CHRM3 isogenes in vivo, containt is useful for studying expression of CHRM3 isogenes in vivo, containt is useful for studying expression of CHRM3 isogenes in vivo, containt is useful for studying expression of CHRM3 isogenes in vivo, containt is useful for studying expression of CHRM3 isogenes in vivo, containt is useful for studying expression of CHRM3 isogenes in the CHRM3 containt is useful for testing the efficacy of therapeutic agents and compounds for Alzheimer's disease, Sjogren's syndrome, disorders associated with the containt is useful for the CHRM3 is containt is useful for the CHRM3 is containt in the CHRM3 is contained with the contained with the contained contained with the contained contained with the contained contained with the contained contained contained with the contained contain
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                     protein variant is useful in drug screening assays and its antibodies useful in immunoassays to detect CHRM3 protein variants in biological samples. The present sequence is an allele-specific oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 15; Page 19; 54pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                purposes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel polymorphic variant of reference sequence for human cholinergic receptor, muscarinic 3 gene, useful for diagnostic and therapeutic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2001-300326/31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Choi JY,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12-OCT-2000; 2000WO-US28247
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31-JUL-2001
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primer used for
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nandabalan K,
detecting human CHRM3 gene polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ΒP
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Pred. No. 2.4e+(
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RESULT 443
AAF69549
ID AAF695
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AC AAF695

AAF69549 standard; DNA; 15

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AAF69549;

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RESULT 442
AAH18856
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                                                       Query Match
Best Local Similarity
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Matches 13; Conserv
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                                                                                                               (McDa) gene and polymorphisms. The polymorphisms are associated with obesity, especially diabetes mellitus associated obesity. They polymorphism may be identified and analysed to determine whether an individual is susceptible to obesity and may be used as the basis for targeted design of drugs to treat obesity. The present sequence was used the identification and amplification of UCP3 polymorphisms.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                          Nucleic acids encoding uncoupling protein 3 (mitochondrial, proton carrier) (UCP3) proteins comprising single nucleotide polymorphisms useful for the design of drugs for treating obesity -
                                                                                         Sequence
                                                                                                                                                                                                                      Claim 15; Page 21; 94pp; English.
                                                                                                                                                                                                                                                                                                                                                                         08-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                               08-SEP-2000; 2000WO-US24784.
                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200118232-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          UCP3; uncoupling protein 3; polymorphism; obesity;
diabetes mellitus; ss.
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                                                                                                                                                                                               The present invention relates to the human uncoupling protein 3
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                     1444 ATGGTGGTAACAGT 1457
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                                           13;
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                                                                                                                                                                                                                                                                                                               Choi JY,
                                                                                         15 BP; 4 A; 2 C; 5 G; 4 T; 0 other;
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                                            Conservative
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                                                                                                                                                                                                                                                                                                                 Denton RR,
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C;
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                                                       Score 12.4; DB 1
Pred. No. 2.4e+02
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Pred. No. 2.
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                                             Mismatches
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2.4e+02;
                                                                   DB 1;
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RESULT 444
AAF461.3
ID AAF461
XX AAF461
XX AAF461
XX JO-MAR
XX JGFBP2
XX ANTISE
KW CYLOST
KW SKIN C
KW IGFM
KW HAPPETT
KW NEOVAE
XX NEOVAE
XX NEOVAE
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Best Local S
Matches 13
                        Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBPB; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to polymorphisms of the human interleukin 4 receptor-alpha gene (II4R-alpha; see ARF57718 for the reference sequence). Polymuclectides comprising polymorphic gene variants are useful for therapeutic purposes. For example, where a patient may benefit from expression of a particular II4Ralpha protein isoform, an expression vector encoding the isoform may be administered to the patient. It may desirable to decrease or block expression of a particular II4Ralpha isogene, which may be done by turning off by transforming a targeted organ, tissue or cell population with an expression vector that expresses high levels of untranslatable mRNA for the isogene. Specific therapeutics identified by these methods may be useful for allergic diseases. The present sequence is a probe for human II4R-alpha.
                                                                                                                                                   IGFBP2
                                                                                                                                                                               30-MAR-2001
                                                                                                                                                                                                                                        AAF46143 standard; DNA; 15 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         therapeutics
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13-JUL-1999;
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                                                                                                                                                                                                                                                                                                                  CTGTGGAGACAGGT 14
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                                                                                                                                                                                                                                                                                                                                                                          0.9%;
nilarity 92.9%;
Conservative
                condition
                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polynucleotide useful in allergic diseases :
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                  the retina;
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Pred. No. 2.4e+0
0; Mismatches
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2.4e+02;
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30-MAR-2001

(first entry)

[GFBP2 oligonucleotide #983.

AAF46144 standard;

DNA;

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Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP3; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;

keratosis; neoplasia; scleroderma; wart; hyperneovascular condition; hyperplasia; neovascular condition of the retina; ss.

n; ichthyosis; serborrhoea; ruba; skin cancer; sclerotic disease; kidney disease;

WO200078341-A1

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                                                                                                                       Matches
                                                                                        Query Match
                                                                                                                                                           antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AR45151 and AR45153-R45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other sclerotic disease, kidney disease, hyperproliferation of the inside of
                                                                                                                                                                                                                                                                                                                                                                                                                              Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an an analysis and that inhibits or reduces growth factor mediated proliferation and/or inflammation -
                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                  Example 6; Page 40; 201pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2001-041421/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21-JUN-1999;
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                                                                                                                                                                                                                                                                                                                                                       skin disorders.
                            1586 TGAACTCCAACACC 1599
                                                                                                                                                                                                                                                                                                                                                                   present invention relates to a method for ameliorating the effects
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                                                            13;
N
                                                                            Similarity
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                                                                                                                       B₽;
                                                            Conservative
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                                                                                                                                                   any other
                                                                         0.9%;
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                                                                                                                       7 C; 2 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RES
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                                                                                                                                                  hyperplasia.
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                                                          0,
                                                                                        Score 12.4; DB 1;
                                                                            Pred.
                                                                                                                                                                                                                                                                                                                                                     comprises contacting the skin with
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                                                            Mismatches
                                                                            No.
                                                                          2.4e+02;
                                                                                     Length 15;
                                                            Indels
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RESULT 446
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Best Local
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                                                                                                                                                                                              Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF4515161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contracting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an antistic of the present sequence is an antistic of the present sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an antis nucleic acid that inhibits or reduces growth factor mediated cell
                 21-JUN-2000; 2000WO-AU00693
                                                                               WO200078341-A1
                                                                                                                  HOMO
                                                                                                                                               neovascular condition of the
                                                                                                                                                                keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
hyperneovascular condition; hyperplasia; kidney disease;
                                                                                                                                                                                                                                                                                                                                   30-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                  AAF46266
                                                                                                                                                                                                                                                                                                                                                                                                 AAF46266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 15 BP; 5 A; 7 C; 2 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 6; Page 40; 201pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        proliferation and/or inflammation
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                                                                                                                                                                                                                                                                                                  IGFBP2 oligonucleotide #1105.
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                                                                                                                sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                   standard; DNA;
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Pred. No. 2.4e+(
0; Mismatches
                                                                                                                                                 retina;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; DB 1;
?.4e+02;
                                                                                                                                                                                          ammation; psoriasis; pilaris; ichthyosis; serborrhoea; ruba;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 15;
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RESULT 447
AAF4627
ID AAF462
XX AAF462
AC AAF462
XX SOMAR
CYCOST
XX ANTISE
KW CYCOST
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XX ANTISE
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Best Local S
Matches 13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
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                                                                                                                                                                                                                                                                                               WO200078341-A1
                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                             hyperneovascular condition; hyperplasia; neovascular condition of the retina; ss.
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                                                                                                                                                                                                                               28-DEC-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IGFBP2 oligonucleotide #1106.
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Pred. No. 2.
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(MURD-) MURDOCH

CHILDRENS RES INST

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RESULT 448
AAF49086/c
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Best Local :
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               WPI; 2001-041421/05
                                               Wraight
                                                                                                                 21-JUN-1999;
                                                                                                                                                21-JUN-2000; 2000WO-AU00693.
                                                                                                                                                                                                                 WO200078341-A1
                                                                                                                                                                                                                                                  Homo sapiens.
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                                                                                MURDOCH CHILDRENS RES
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                                               Werther
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Pred. No. 2.4e+02;
                                                                                INST.
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Matches
                                    Query Match
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                                                                               Sequence
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                                                                                                                        blood vessels or any other hyperplasia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                proliferation and/or inflammation -
                     Local
                                                                                                                                                                                                                                                                                                                                                                                             present invention relates to a method for ameliorating the effects skin disorders. The method comprises contacting the skin with an
                     Similarity
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  Conservative
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                                                                               A; 4 C; 4
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                                                                               G;
                   Score 12.4;
Pred. No. 2.
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  Mismatches
                                                                               0 other;
                     2.4e+02;
                                      DB 1;
                                      Length 15;
  Indels
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  0
  Gaps
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1488 15 GGAGCCAGACTTCA GAAGCCAGACTTCA 1501 N

0

믕 S

RESULT 449 AAF49087/c AAF49087 IGF-I oligonucleotide #47 standard; DNA; (first entry)

Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrheea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina;

sapiens.

28-DEC-2000

21-JUN-2000; 2000WO-AU00693

21-JUN-1999; 99US-0140345.

(MURD-) MURDOCH CHILDRENS

RES INST

Ś Werther GA, Edmondson SR

2001-041421/05

Ameliorating the effects of a disorder, e.g. psoriasis, k administering UV (ultra-violet) treatment (optional) and nucleic acid that inhibits or reduces growth factor media proliferation and/or inflammation mediated an antisense cell

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ARESULT 450
AAF515
ID AAF515
XX AAF515
XX AAF515
XX AAF515
XX AAF158
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease; neovascular condition of the retina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; keloid; cytostatic; dermatological; keloid; skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
                                                             Example 8;
                                                                                                                 nucleic acid that inhibits or reduces proliferation and/or inflammation -
                                                                                                                                                                      Ameliorating the effects of a disorder, e.g. psoriasis, ladministering UV (ultra-violet) treatment (optional) and
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1 Similarity 92.9%;
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The present invention relates to a method

for ameliorating the effects

inhibiting

reducing growth

Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an annucleic acid that inhibits or reduces growth factor mediated

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(MURD-) MURDOCH CHILDRENS RES INST.

21-JUN-2000;

2000WO-AU00693

99US-0140345

28-DEC-2000

Homo sapiens.

proliferation and/or inflammation

Example

8; Page

84; 201pp;

English.

The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contracting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of

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                                                                                                                                                                                                of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFB]-2 or IGFB23), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hypernevoacular condition such as a neovascular condition of the retina, brain or skin, growth factor-mediated malignancies, other selectic disease, kidney disease, hyperproliferation of the inside of
                                                                                                                                                Sequence 15
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The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to despin the antisense oligonucleotides of the present invention (see AAF45151 and AAF45153-F45161). The method is useful for ameliorating the effects of
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                                                                                                                                                                                                                                                                                                                                                          Ameliorating the effects of a disorder, e.g. psoriasis, by administering UV (ultra-violet) treatment (optional) and an inucleic acid that inhibits or reduces growth factor mediated
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                                                                                                                                                                                                                                                                                                                                            proliferation and/or inflammation
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AAF52782
neovascular condition of the retina;
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Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic; cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid; skin disorder; Insulin-like Growth Factor I receptor; IGF-1; pityriasis; IGF binding protein; IGFBP-2; IGFBB3; inflammation; psoriasis; pilaris; growth factor mediated cell proliferation; ichthyosis; serborrheea; ruba; keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease; hyperneovascular condition; hyperplasia; kidney disease;

Homo sapiens.

WO200078341-A1

21-JUN-2000; 2000WO-AU00693

21-JUN-1999; 99US-0140345

MURDOCH CHILDRENS RES

WPI; 2001-041421/05

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Werther GA,

Edmondson SR;

Ameliorating the effects of a disorder, e.g. psoriasis, t administering UV (ultra-violet) treatment (optional) and nucleic acid that inhibits or reduces growth factor media proliferation and/or inflammation mediated γď an antisense

Example 8; Page 85; 201pp; English.

of skin disorders. The method comprises contacting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [GF]-1 receptor, IGF binding protein [IGFBB]-2 or IGFBB], which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotides of the present invention (see AAF45151 and AAF45133-F45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of testin, a hyperneovascular condition such as a neovascular condition of testing the skin, a hyperneovascular condition such as a neovascular condition of testing the skin and the skin The present invention relates to a method for ameliorating the effects skin, growth factor-mediated malignancies, of the

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RESULT 454
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                        The present invention relates to a method for ameliorating the effects CC of skin disorders. The method comprises contacting the skin with an CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3], which is capable of conhibiting or reducing growth factor mediated cell proliferation, CC inflammation and/or other disorders. The present sequence is an CC oligonucleotide which can be used to design the antisense CC oligonucleotide which can be used to design the antisense CC oligonucleotides of the present invention (see APF45151 and APF45153-F845161). The method is useful for ameliorating the effects of CC psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, CC keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the CC skin, a hyperneovascular condition such as a neovascular condition of the CC skin, brain or skin, growth factor-mediated malignancies, other CC sclerotic disease, kidney disease, hyperproliferation of the inside of CC blood vessels or any other hyperplasia.
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Sequence 15

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T; 0 other;

Matches Best Local Query Match

Similarity

0.9%;

Score 12.4; DB 1; Pred. No. 2.4e+02; 7 T; 0 other;

Length 15;

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Mismatches

Conservative

Sequence

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Best Local
                                                                                                                                                      The present invention relates to a method for ameliorating the effects of skin disorders. The method comprises contracting the skin with an antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1 receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of inhibiting or reducing growth factor mediated cell proliferation, inflammation and/or other disorders. The present sequence is an oligonucleotide which can be used to design the antisense oligonucleotide which can be used to method is useful for ameliorating the effects of AAP45153-P45161). The method is useful for ameliorating the effects of psoriasis, ichthyosis, pityriasis, ruba, pilaris, serborthoea, keloids, keratosis, neoplasias, scleroderma, warts, benign growths, cancers of the skin, a hyperneovascular condition such as a neovascular condition of the
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                                                      retina, brain or skin, growth factor-mediated malignancies, esclerotic disease, kidney disease, hyperproliferation of the blood vessels or any other hyperplasia.
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RESULT 456
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                                                       The specification describes a method of synthesis of biologically active CC substances of determined structure directly in the cells of living CC organisms containing specific RNA or DNA sequence. The method is based CC inactive substances to specific RNA or DNA in vivo in the cells of CC inactive substances to specific RNA or DNA in vivo in the cells of CC inactive substances to specific RNA or DNA in vivo in the cells of CC inactive precursors bound to the oligomers can interact with each other CC inactive precursors bound to the oligomers can interact with each other CC in the continuous and reactions which bind the biologically inactive form of the substances. This changing of properties CC is due to chemical reactions which bind the biologically active form of the whole compound. The methods are useful for producing biologically continuous from inactive precursors. These compounds may be continuous from inactive precursors. These compounds may be continuous from inactive precursors. These compounds may be continuous from the cellular metabolism. DNA replication, RNA cranscription, RNA translation, RNA elongation RNA processing, protein continuous processing, cellular metabolism. DNA replication, CC synthesis, protein processing, cellular protein and RNA transportation, CC synthesis, protein processing, cellular protein and RNA transportation, CC synthesis, protein and RNA transportation, CC synthesis, protein and RNA transportation, CC synthesis, protein and RNA transportation, CC contained the tumour suppressor p53, and the oligomers are contained of the invention is used to produce the tumour suppressor p53, and the oligomers are contained and oligomers are contained to be suppressor p53, and the oligomers are contained to the processor p53, and the oligomers are contained to the processor p53, and the oligomers are contained to the processor p53, and the oligomers are contained to the processor p53, and the oligomers are contained to the processor p53, and the contained the contained to processor p53.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RNA transcription; RNA translation; RNA elongation; RNA processi protein synthesis; protein processing; cellular differentiation; cell division; ion channel transmission; cellular protein; toxin RNA transportation; cellular oxidation; tumour suppressor p53;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Biologically active compound; cellular metabolism; DNA replication;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Oligomer antiparallel to NbHOT mRNA, specific to ovarian tumour cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     06-MAR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAC62187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (SERG/) SERGEEV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-OCT-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10; Page 35; 65pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                standard;
                                             from
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                                        bound peptides and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15
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                                           oligomers.
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Query Match Best Local Similarity

0.9**%**; 92.9**%**;

Score Pred. w T; 0

12.4; DB 1; No. 2.4e+02; other;

Length 15;

Query Match Best Local Matches

y Match 0.9%; Local Similarity 92.9%;

Conservative

<u>.</u>.

Score 12.4; DB 1; Pred. No. 2.4e+02; Mismatches

Length Indels

15;

0

Gaps

0

Sequence

15

B₽;

0

A,

3 C; 3 G; 9 T; 0 other;

Sequence

15

BP; 3

P.

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C; 3

G;

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RESULT 457
ABX15428/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14-SEP-1998;
30-SEP-1993;
30-SEP-1994;
07-JUN-1995;
                                                                                               immunosuppressive, dermatological, antiinflammatory, antiarthritic, antiinflammatic and matiasthmatic activities and may be used as a kinase inhibitor. The method and compositions of the invention may be used for modulating the clearance of antibody coated cells, viruses and soluble antigens by inhibiting phagocytosis and modulating the interaction of immune complexes with cellular to tissue Fc receptors. The method is used for treating autoimmune diseases, immune mediated diseases e.g.
                                                                                                                                                                                                    This invention relates to a novel method for preventing phagocytosis immune complexes comprises introducing an inhibitor of a kinase endogenous to phagocytic cells associated with an Fc receptor at the membrane of the cells under conditions so that the phagocytic potentiof the cells is inhibited. The method of the invention may have
                                                                                                                                                                                                                                                                                                                          Preventing phagocytosis of immune complexes used for treating autoimmune diseases comprises introducing inhibitor of kinase endogenous to phagocytic cells associated with Fc receptor at of cells -
                           rheumatoid arthritis, and for preventing immune complexes deposition tissues e.g. the kidneys and in the joints. The present sequence represents a human Syk kinase gene target III antisense oligonucleotiused in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     phagocytosis; immune complex; kinase inhibitor; immune mediated disease; asthma; systemic '''''''' rheumatoid arthur''
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human Syk mRNA target III antisense oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-MAR-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rheumatoid arthritis; antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABX15428
                                                                                                                                                                                                                                                                                                                                                                                                                                                              (UYPE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ) 1649 TGCTGGCAGGGGTC 1662
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ss; Syk; kinase; immunosuppressive;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13;
                                                                                     and immune complex diseases e.g. lupus erythematosus and
                                                                                                                                                                                                                                                                                                                                                                                                                                                            VIND
                                                                                                                                                                                                                                                                                              6; Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                standard; DNA; 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                 ΑĐ,
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94US-0316425.
95US-0483530.
                                                                                                                                                                                                                                                                                              9;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Park J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         96US-0657884
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98US-0158980
                                                                                                                                                                                                                                                                                             26pp;
                                                                                                                                                                                                                                                                                             English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             dermatological;
                                         antisense oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  erythematosus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               autoimmune disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antiasthmatic;
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                                                                                                                                                                                                                                                                                                                                                                     e.g.
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RESULT 459
AAT60192/c
ID AAT601
XX
AC AAT601
XX
DT 03-FEB
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AAD49046,
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                                                                                                                                                                                 Query Match
Best Local S
Matches 13
                                                                                                                                                                                                                                                              The present invention relates to novel peptide modulators of androgen receptor. The peptides of the invention are useful for treating androgen-associated disorders such as prostate cancer, particularly hormonally refractive prostate cancer, colon cancer, lung cancer, benign prostatic hypertrophy, acne, hirsutism, male pattern baldness, Stein-Leventhal syndrome, androgen insensitivity syndrome, infertility, endometrial cancer and X-linked spinal bulbar muscular atrophy. The present DNA sequence is MVDP gene androgen responsive element (ARE).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Androgen receptor; androgen-associated disorder; prostate cancer; acne; benign prostatic hypertrophy; hirsultism; androgen insensitivity syndrome; male pattern baldness; Stein-Leventhal syndrome; infertility; cytostatic; X-linked spinal bulbar muscular atrophy; antiseborrheic; dermatological; depilatory; androgen responsive element; ARE; MVDP gene; ds.
  03-FEB-1998
                             AAT60192;
                                                        AAT60192 standard;
                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 26; 68pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                    New peptide modulators of androgen receptor, useful for treating androgen-associated disorder, e.g. prostate cancer, particularly hormonally refractive prostate cancer, colon cancer, lung cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12-MAR-2001;
28-JAN-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-MAR-2002; 2002WO-US07487.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unidentified.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAD49046;
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                                                                                                                                                     2633 GAAGTTCTTGTTCT 2646
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene androgen responsive element (ARE).
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                                                                                                                                                                                  l Similarity
13; Conservat
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                                                                                                                                                                                                                                          15
                                                                                                                             GAAGTTCCTGTTCT 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mueller J,
                                                                                                                                                                                                                                       BP; 2
                                                                                                                                                                                 0.9%;
llarity 92.9%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2001US-275240P.
2002US-352399P.
 (first entry)
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                                                                                                                                                                                                                                        A; 3 C; 3 G; 7 T; 0
                                                        DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oza VB,
                                                        16
                                                        ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ВP
                                                                                                                                                                                 Score 12.4; DB 1;
Pred. No. 2.4e+02;
0; Mismatches 1;
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                                                                                                                                                                                                                                          other;
                                                                                                                                                                                                           Length 15;
                                                                                                                                                                                    Indels
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RESULT 460
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            This sequence represents a ribozyme recognition site for the proliferating cell nuclear antigen (PCNA) gene which is cleaved by a harpin ribozyme at position 867 and by a hammerhead ribozyme at position 869. Novel ribozymes are being investigated for their ability to inhibit the activity of a growth factor (e.g. PCNA) responsible for abnormal smooth muscle cell (SMC) proliferation in vascular tissue leading to restenosis. The ribozymes can also directly block the production of oncogenes and cell regulatory factors involved with SMC growth following vascular injury.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New hairpin and hammer:head ribozyme(s) - which inhibit abnormal smooth muscle cell proliferation in vascular tissue, partic. for preventing or treating restenosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ribozyme; hairpin; hammerhead; proliferating cell nuclear antigen; growth factor; oncogene; vascular tissue; SMC; PCNA; recognition s restenosis; smooth muscle cell proliferation; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 16 BP; 4 A; 4 C; 1 G; 7 T; 0 other;
             04-DEC-1998;
                                      06-DEC-1999;
                                                                                                                                                          Ribozyme; hairpin; hammerhead; gene therapy; vasotropic;
                                                                                                                                                                                                                                                                 AAA86559 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1; Page 15; 50pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1997-202230/18.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Goldenberg T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12-SEP-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO9710334-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic PCNA ribozyme recognition site
                                                                08-JUN-2000
                                                                                         WO200032765-A2
                                                                                                                                             restenosis;
                                                                                                                                                                                  PCNA hairpin ribozyme recognition site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (IMMU-) IMMUSOL
                                                                                                                                                                                                                                                                                                                                                        2169 TTTGGTAACAGAAA 2182
                                                                                                                                                                                                                                                                                                                                 14
                                                                                                                                                                                                                                                                                                                                                                                    1 Similarity
13; Conserv
                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                              (first entry)
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             98US-0110954.
                                       99WO-US28772.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tritz R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       96WO-US14838.
                                                                                                                                                                                                                                                                                                                                                                                              0.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                  Score 12.4; DB 1;
Pred. No. 2.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                               Length 16;
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Best Local
          The present invention relates to a hairpin or hammerhead ribozyme, designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase other than cell-cycle dependent kinases CDKI, PCNA and Cyclin BI. Representative examples of ribozyme recognition sites are given in AAA82415 to AAA86787. The ribozyme of the invention is useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to a hairpin or hammerhead ribozyme, designed to cleave RNA encoding a cyclin or cell-cycle dependent k other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1. Representative examples of ribozyme recognition sites are given in AAA82415 to AAA86787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells.
                                                                                    Example
                                                                                                       New hairpin and hammerhead ribozyme RNA encoding a cyclin or cell-cycle PCNA and Cyclin B1 -
                                                                                                                                                          WPI; 2000-412314/35
                                                                                                                                                                                  Tritz R,
                                                                                                                                                                                                          (-DWMI-)
                                                                                                                                                                                                                                 04-DEC-1998;
                                                                                                                                                                                                                                                         06-DEC-1999;
                                                                                                                                                                                                                                                                                 08-JUN-2000.
                                                                                                                                                                                                                                                                                                         WO200032765-A2
                                                                                                                                                                                                                                                                                                                                                         restenosis;
                                                                                                                                                                                                                                                                                                                                                                  Ribozyme; hairpin; hammerhead; gene therapy; vasotropic;
                                                                                                                                                                                                                                                                                                                                                                                           PCNA hammerhead ribozyme
                                                                                                                                                                                                                                                                                                                                                                                                                    04-DEC-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                             AAA86780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAA86780 standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 16 BP; 4 A; 4 C; 1 G; 7 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; Page 16; 109pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New hairpin and hammerhead
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (-DWMI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ribozyme is resistant to endonuclease activity and cient in restenosis treatment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       encoding a c
and Cyclin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2169 TTTGGTAACAGAAA 2182
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                                                                                                                                                                                                          IMMUSOL INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IMMUSOL INC
                                                                                  1; Page 24; 109pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTTGGTGACAGAAA 1
                                                                                                                                                                                 Welch PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Welch PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
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                                                                                                                                                                                  Barber
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                                                                                                                                                                                                                                                                                                                                                                                           recognitoin site #5
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                                The present invention describes a method for treating a proliferative skin or eye disease and scarring. The method involves administering a ribozyme (I) which cleaves RNA encoding a cytokine involved in inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle dependent kinase, growth factor or a reductase, or administering a nucleic acid molecule (II) comprising a promoter operably linked to a nucleic acid segment encoding (I). (I) can have antipsoriatic, dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling, ophthalmological, vulnerary, keratolytic and virucide activities, and cleaves RNA encoding cytokine involved in inflammation. (I) can be used in gene therapy. (I) and (II) are useful for treating proliferative skin diseases such as psoriasis, atopic dermatiis, actinic keratosis, squamous or basal cell carcinoma and viral or seborrheic wart. They can
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Treating proliferative skin or eye diseases and scarring, using ribozymes that cleave RNA encoding cytokines involved in inflammation,
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                       skin or eye disease and scarring. The merchant involved in ribozyme (I) which cleaves RNA encoding a cytokine involved in inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle dependent kinase, growth factor or a reductase, or administering a nucleic acid molecule (II) comprising a promoter operably linked to a nucleic acid segment encoding (I). (I) can have antipsoriatic, dermatological, cytostatic, antisebornheic, antidiabetic, antisickling, ophthalmological, vulnerary, keratolytic and virucide activities, and ophthalmological, vulnerary, keratolytic and virucide activities, and
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   cleaves RNA encoding cytokine involved in inflammation. in gene therapy. (I) and (II) are useful for treating p
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                                                                                                                                                                                                                                                                                                                                                                                                     Page 394; 408pp; English.
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                                                               The proble NANOSCA CONTROLL OF THE PROBLEM OF THE MINISTER OF 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Non-tuberculous mycobacteria; rpoB gene fragment; NTM; HIV; PRA; RFLP; PCR-restriction fragment length polymorphism analysis; probe: яя.
                                           selection of appropriate therapies, including M. tuberculosis, and non-tuberculous mycobacteria (NTM) encountered in subjects
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New DNA fragments from the rpoB gene of mycobacteria, useful for diagnosis and identification of many mycobacterial species by
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be KANSASII can be used to detect M. kansasii. It is 1 of 16
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human immunodeficiency virus

(HIV).

Analysis of

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RESULT 465
ABN84079/c
c engineered to contain 2 template annealing sequences, i.e. a

c downstream primer that anneals to a first portion of an antibody, and

c template, e.g. mRNA encoding at least a portion of an antibody, and

c an upstream collar sequence, such as the present sequence, that anneals

c a second portion of the template with a restriction site located

between the 2 template annealing sequences. The collar sequence is

c the reverse complement of Vkappa 1A primers modified to add a

c restriction site, pRLS-CAT was modified between the SacI and

c xbaI sites to contain the FRI collar sequence immediately adjacent

to a Kappa constant region primer (see ABN84080), their junction

c forming an SmaI site. Once the engineered plasmid is prepared,

the 2 annealing sequences are separated by a restriction digest to

c produce a cleaved plasmid. The portion of the cleaved plasmid that

c anneals to the antibody constant region serves as a primer for

c reverse transcriptase to generate first strand cDNA. Transcription
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
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Best Local
                                                                                                                                                                                                                                                The present sequence is an antibody framework region 1 (FR1) collar oligonucleotide that is used in the engineering of plasmids of the invention, especially plasmid pRL5-CAT (see ABN84078), for the in situ production of genes. It was found nucleic acids encoding at least a portion of an antibody can be directly incorporated into a plasmid by reverse transcription of mRNA. The plasmid is
                                                                                                                                                                                                                                                                                                                                                                                                                  Plasmid for in situ production of genes, comprises two template annealing sequences, such as downstream primer and upstream col sequence and a restriction site located between the annealing s
                                                                                                                                                                                                                                                                                                                                                                    Claim 35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-537569/57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    McWhirter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-DEC-2000; 2000US-251440P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-DEC-2001; 2001WO-US47452
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FR1 collar sequence
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required), and can dif
experiment, including
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (ALEX-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ALEXION PHARM INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                   Page 18; 65pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Barbas-Frederickson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     , precise, simple and cost effective (only 1 PCR differentiate between many species in a single ing those difficult to distinguish by usual biochemical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               entry)
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Pred. No. 2.
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the annealing sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             terminates when the transcriptase encounters the upstream collar sequence of the cleaved plasmid in the antibody FRI region. Ligation of the product then generates a plasmid vector containing a nucleic acid encoding the antibody light chain. The vector can be transformed into a host cell where it is converted to double-stranded DNA plasmids and amplified.
        The invention relates to an isolated Sitosterolaemia Susceptibility Gene (SSG) polypeptide. SSG is a member of adenosine triphosphate (ATP) binding cassette (ABC) family cholesterol transporter. SSG is useful for identifying a compound useful in the treatment or prevention of a sterol-related disorder, including sitosterolaemia, hyperlipidaemia, hypercholesterolaemia, gall stones, HDL deficiency, atherosclerosis or nutritional deficiencies. SSG is also useful for treating cholesterol-nutritional deficiencies. SSG is also useful for treating cholesterol-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; sitosterolaemia susceptibility gene; SSG; atherosclerosis; sterol-related disorder; hyperlipidaemia; hypercholesterolaemia; thera; gall stone; coronary heart disease; cardiovascular disease; arthritis; xanthoma; haemolytic anaemia; transgenic animal; ds.
                                                                                                                                                                  Novel sitosterolemia susceptibility gene polypeptide and polynucleotide, useful for screening a compound that increases the level of expression or activity of SSG polypeptide for treating
                                                                                                                            Disclosure;
                                                                                                                                                     level of expression or activity sterol-related disorder
                                                                                                                                                                                                                            WPI; 2002-017598/02.
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                                                                                                                                                                                                                                                    Schultz J,
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                                                                                                                          Fig 14B; 105pp; English.
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2000US-204234P
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10..16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; 2 C; 6 G; 5 T; 1 other;
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"Exon"
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associated diseases or conditions including

coronary heart

SSSSSSSSXX

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RESULT 467
ABT33749
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Query Match
Best Local Similarity
Matches 13; Conserv
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Best Local
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                                                                                                      The invention relates to a novel isolated molecule comprising bases 2-8 or 13-16 of 2-16 base pair sequences, or comprising a 1731 base pair sequence, all given in the specification or at least 95 % identity with the 1731 bp sequence. The nucleic acid molecule is useful in regulating apoptosis in cells and in drug screening. The method is useful in facilitating the induction of apoptosis in cells, in identifying an agen that can facilitate the induction of apoptosis in cells, and in inhibiting the growth of a cancer. This polymucleotide sequence represents a ribozyme binding substrate sequence relating to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           grug
                                                              Sequence 16
                                                                                                                                                                                                                                                                       Example 3; Page 42; 153pp; English.
                                                                                                                                                                                                                                                                                                        and
                                                                                                                                                                                                                                                                                                                    New isolated nucleic acid molecule useful for regulating apoptosis induction in cells, for inhibiting the growth of cancer in subjects,
                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-129308/12
                                                                                                                                                                                                                                                                                                                                                                                                     Tritz R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-MAY-2001; 2001US-290927P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-MAY-2002; 2002WO-US15198.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cytostatic; gene therapy; apoptosis; cancer growth inhibition;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ribozyme substrate binding
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 16
                                                                                                                                                                                                                                                                                                                                                                                                                                    (IMMU-) IMMUSOL INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            screening;
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                                                                                                                                                                                                                                                                                                      drug screening
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                                                                                                                                                                                                                                                                                                                                                                                                   Keily B,
                                                             BP; 7
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 Conservative
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                                                             A; 3 C; 3 G; 3 T; 0 other;
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             0.9%;
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Score 12.4; DB Pred. No. 2.6e+(0; Mismatches
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); Mismatches
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Pred. No. 2.6e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                     ٢
                .6e+02;
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                             Length 16;
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Search completed: Job time : 8 secs

December

1, 2003, 11:55:07

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RESULT 468
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                                                              Matches
                                                                             Best Local
                                                                                          Query Match
                                                                                                                                                     patient previously diagnosed with a breast tumour and subsequently useful in determining the degree of aggressive treatment indicated. The prognostic method is especially useful in making decisions concerning treatment modalities, including therapeutic intervention, diagnostic criteria such as disease staging and disease monitoring and surveillance for metastasis or recurrence of neoplastic disease. The present sequence is a PCR primer used for LOH analysis. This primer is used to illustrate the method of the invention.
                                                                                                                                                                                                                                                                                                The invention relates to a method of determining the likelihood of tumour re-occurrence in a patient previously diagnosed with a break tumour. The method involves analysing the target cell sample for loof heterozygosity (LOH) to chromosomal locus 3p24.3. The method is
                                                                                                                                                                                                                                                                                    of heterozygosity (LOH) to chromosomal locus 3p24.3. The method is useful for determining the likelihood of tumour re-occurrence in a
                                                                                                                                                                                                                                                                                                                                                                                                             Determining the likelihood of tumor re-occurrence in a patient previously diagnosed with a breast tumor to determine treatment modalities, comprises analyzing the cell sample for loss of heterozygosity to chromosomal locus 3p24.3
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GENERAL INFORMATION:
                           APPLICATION NUMBER: US/08/471
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US/08/149
FILING DATE: 16-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: LINEK, ETNEST V
REGISTRATION NUMBER: 29822
REFERENCE/DOCKET NUMBER: 4089
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)523-3300
TELEFAX: (617)523-6440
TELEX: 200291 STRE UR
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                        APPLICANT: IGARASHI, Koichi
APPLICANT: SENOO, Masaharu
APPLICANT: WATANABE, Tatsuya
TITLE OF INVENTION: PROTEIN, DNA AND USE THEREOF
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                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION:
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ADDRESSEE: CUSHMAN
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29, Appl
26, Appl
331, App
418, App
445, Appl
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2267, App)

35, App)

301, App

302, App

430, App

430, App

442, App

534, App

534, App

547, App

664. App

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668, App

670, App

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US-07-997-133-4/c
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                                          Query Match
Best Local S
Matches 27
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Patent No.
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Best Local Similarity
                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/642,755
FILING DATE: 18-JAM-1991
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, No. 5288855man F.
REGISTRATION NUMBER: 24,618
REGERENCE/DOCKET NUMBER: 769-226-0
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                               TELEPHONE: (703)521-45
TELEFAX: (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO:
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APPLICANT:
APPLICANT:
                                                                                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 30 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
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                                                                                                                      MOLECULE TYPE:
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CORRESPONDENCE ADDRESS:
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APPLICANT: Mazue,
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LENGTH: 39 base pairs
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                                                                                                                               STRANDEDNESS: unv
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CITY: Arlington
STATE: Virginia
ZIP: 22202
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           2488
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5. 5288855
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                                                           Similarity
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TGTTGGCATGCAGTGCCCTCCCAGAGACC 2516
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VENTION: Extracellular Form of the Human
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                                           Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  E: Floppy disk
IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                              (703)521-4500
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                                                                                                                      DNA (genomic)
                                                                                                                                                   unknown
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3; Mismatches
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                                                        Score 25.8;
Pred. No. 2.
                                          Mismatches
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RESULT 4
US-07-631-717A-5/c
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEPAX: (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 4:
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                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 1.8%;
Best Local Similarity 93.1%;
Matches 27; Conservative
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ATTORNEY/AGENT INFORMATION:
NAME: Oblon, Norman F.
REGISTRATION UMBER: 24,618
REFERENCE/POOPUR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/07/997,133 FILING DATE: 28-DEC-1992 CLASSIFICATION: 530 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                       TITLE OF INVENTION: SYSTEM FOR ASSAYING BINDING TITLE OF INVENTION: TO A HEPARIN-BINDING GROWTH TITLE OF INVENTION: FACTOR RECEPTOR
                                                                                                  APPLICANT: Yayon, Avner
APPLICANT: Ornitz, David M.
APPLICANT: Klagsbrun, Michael
APPLICANT: Leder, Philip
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TITLE OF INVENTION: Extracellular Form of the Human
TITLE OF INVENTION: Fibroblast Growth Factor Receptor
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CORRESPONDENCE ADDRESS
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Pred. No. 2.
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US-08-166-717D-5/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: Yayon, Avner
APPLICANT: Ornitz, David M.
APPLICANT: Klagsbrun, Michael
APPLICANT: Leder, Philip
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TELEX: 200154
INFORMATION FOR SEQ ID NO:
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MEDIUM TYPE: 3.5" Diskette,
COMPUTER: IBM PS/2 model 50
COMPUTER: IBM COMPATIBLE
OPERATING SYSTEM: WINDOWS 95
SOFTWARE: WYZDEVIECT (Version 7.0)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/166,717D
FILING DATE: 12/14/93
CLASSIFICATION: 435
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ATTORNEY/AGENT INFORMATION:
NAME: Paul T. Clark
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 00383/018001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
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CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: UZIP: 02110
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Local Similarity 95.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    176 Federal Street
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Clark & Elbing LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      single
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IBM P.C. DOS (Version 3.30)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SYSTEM FOR ASSAYING BINDING TO A HEPARIN-BINDING GROWTH FACTOR RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>ن</u>
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US-08-678-039A-4/c
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US-08-678-039A-4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                    TELEFAX: 202-783-6031
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: Saxe, Stephen A.
REGISTRATION NUMBER: 38,609
REFERENCE/DOCKET NUMBER: 23
                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Keating, Mark T.
APPLICANT: Morris, Colleen
TITLE OF INVENTION: Diagnos
TITLE OF INVENTION: William
TITLE OF INVENTION: Presenc
                MOLECULE TYPE:
DESCRIPTION:
                                                                                                                                                                                      TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                  SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 723-4123
TELEFAX: (617) 723-8962
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08/678,039A FILING DATE: 10-JUL-1996 CLASSIFICATION: 435
                                                 TOPOLOGY:
                                                                 STRANDEDNESS: single
                                                                                  LENGTH: 25 base pairs
TYPE: nucleic acid
                                                                                                                                                                         TELEPHONE: 202-624-1589
                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE:
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REFERENCE/DOCKET NUMBER: 00383/017002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23;
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                                                                                                                                                                                                                                                                                                                                                                                                                                        20004
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Similarity 95.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Washington
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ង
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          E: Rothwell, Figg, Ernst & Kurz, P.C.
555 Thirteenth Street, N.W., Suite 701 East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tower
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                                             linear
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            other nucleic acid
/desc = "Primer sequence"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Colleen A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Diagnosis of Williams Syndrome and Williams Syndrome Cognitive Profile by Analysis of the Presence or Absence of a LIM-Kinase Gene
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Pred. No. 8.
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Query Match

Score 21.4;

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Length 25;

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US-07-947-683-14/c
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                                                                                                                                         Sequence 13, Application US/08400323
Patent No. 5703047
GENERAL INFORMATION:
                                                                           GENERAL INFORMATION:
APPLICANT: Wilson, Steven E.
TITLE OF INVENTION: Methods
TITLE OF INVENTION: Healing
TITLE OF INVENTION: 18
                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                 Query Match 1.5%;
Best Local Similarity 100.0%;
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Patent No. 5589451
GENERAL INFORMATION:
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TELEX: NOT APPLICABLE
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPB: nucleic acid
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FILING DATE: SEPTEMBER 21, 1992
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: KITCHELL, BARBARA S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY
                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION:
TELEPHONE: 512-320-7200
TELEFAX: 512-474-7577
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CURRENT APPLICATION DATA:
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TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC COMPALIANT OPERATING SYSTEM: PC-DOS/MS-DOS
                             ADDRESSEE: Arnold, White & Durkee STREET: P. O. Box 4433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REGISTRATION NUMBER: 33,928
REFERENCE/DOCKET NUMBER: UTSD:311/KIT
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ZIP: 77210
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                                                                                                                                                                                                                                                                                                                                                                                                                                      STRANDEDNESS:
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                                                                                                                                                                                                                                                                                          1322 TATCCTTTCACTCTGCATGGT 1342
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                                                                                                                                                                                                                                                                    21 TATCCTTTCACTCTGCATGGT 1
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Houston : TX
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VENTION: METHODS AND TREATMENTS FOR

VENTION: CORNEAL HEALING WITH HEPATOCYTE
                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                            Methods and Treatments for Corneal Healing with Growth Factors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AND KERATINOCYTE GROWTH FACTORS
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100.0%; Pred. No. 7.8
1ve 0; Mismatches
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0; Mismatches
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US-08-471-570-16
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Patent No. 5
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Best Local
                             FILING DATE:
APPLICATION NUMBER: US 07/74
PILING DATE: 16-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: LINEK, Ernest V
REGISTRATION NUMBER: 29822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: IGAMAGA.,
APPLICANT: SENOO, Masaharu
APPLICANT: WATANABE, Tatsuya
APPLICANT: WATANABE, TATSUYA
APPLICANT: WATANABE, TATSUYA
APPLICANT: WATANABE, TATSUYA
APPLICANTON: PROTEIN, DNA AND USE THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                       APPLICATION NUMBER: US/00
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                             SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
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TELEPHONE: (512) 418-3000
TELEPAX: (512) 474-7577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
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TELECOMMUNICATION, INFORMATION:
                                                                                                                                                                                                                                                            MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                                                                      STATE: Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Match 1.5%; Score 21; L. Local Similarity 100.0%; Pred. No. 7.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRANDEDNESS:
TOPOLOGY: lir
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TELEX: 79-0924
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Kitchell, Barbara S. REGISTRATION NUMBER: 33,928 REFERENCE/DOCKET NUMBER: UT
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                    REFERENCE/DOCKET NUMBER:
                                                                                                                                         APPLICATION NUMBER: US/08/149,664
                                                                                                                                                                                                                                                                                                                                                                                                         STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE:
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5750371
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                                                                                                                                                                                                                                                                                                                                                                                         Boston
                                                                                                                                                                                                                                                                                                                                                                                                         130 Water Street
                                                                                                                                                                                                                                                                                                                                                                                                                           DAVID G. CONLIN; DIKE, BRONSTEIN, ROBERTS & CUSHMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear
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                                                                                                        US 07/743369
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                                                                                                                                                                                                             US/08/471,570
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                    40897
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RESULT 10
US-08-471-570-17/c
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Best Local Similarity
Matches 21; Conserv
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Query Match 1.4%;
Best Local Similarity 84.6%;
Matches 22; Conservative
                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/08/149,664
FILING DATE:
APPLICATION NUMBER: US 07/743369
FILING DATE: 16-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: LINEK, ETNEST V
REGISTRATION NUMBER: 29822
REFERENCE/DOCKET NUMBER: 40897
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO:
                                                                                                                                                                          TELEX: 200291 STRE UR INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 06-JUN-
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: WATANABE, Tatsuya
APPLICANT: WATANABE, TATSUYA
TOTELN, DNA AND USE THEREOF
                                                                                       MOLECULE TYPE: other nucleic acid, synthetic DNI
                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                              TELEPHONE: (617)523-6440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: DAVID G. CONLIN; DIKE, BRONSTEIN, ROBERTS & ADDRESSEE: CUSHMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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TELEX: 200291 STRE UR
                                                                                                         TOPOLOGY:
                                                                                                                         STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET:
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                                                                                                                                                           LENGTH:
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                                                                                                                                         nucleic acid
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                                                                                                                                                           26 base pairs
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                                                                                                            linear
                                                                                                                                                                                                                                               (617)523-3400
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                                                                                                                         single
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Pred. No.
                   Score 19.6;
Pred. No. 22;
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7.8;
                                    DB 1;
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                                    Length 26;
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0; Mismatches

4;

Indels

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Gaps

1388 CCCCAGACTACCTGGAGATAGCCATT 1413

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APPLICANT: MOLLER, Maria J
APPLICANT: MALES, Richard
APPLICANT: WALES, Richard
APPLICANT: SIGENS, Kenneth W.
APPLICANT: PLASTOW, Graham S.
TITLE OF INVENTION: Methods for Determining the Coat Colour Genotype of a
FILE REFERENCE: 064727.0103
CURRENT APPLICATION NUMBER: US/09/014,241
CURRENT FILING DATE: 1998-07-27
EARLIER APPLICATION NUMBER: PCT/GB96/01794
EARLIER APPLICATION NUMBER: GB 9515385.4
EARLIER FILING DATE: 1995-07-27
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SOFTWARE: PatentIn Ver. 2.0 - beta
SEQ ID NO 13
LENGTH: 22
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
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US-09-014-241-13
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Best Local Similarity 90.5
Matches 20; Conservative
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Sequence 13, App-
No. 6183955
                                                                                                                                                                                        SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 39
                                                                                                                                                                                                                                         APPLICANT: Sakurada, Kazuhiro
APPLICANT: Balmer, Theo
APPLICANT: Balmer, Theo
APPLICANT: Gage, Fred H.
TITLE OF INVENTION: REGULATION OF TYROSINE HYDROXYLASE
TITLE OF INVENTION: EXPRESSION
FILE REFERENCE: 07251/031001
CURRENT APPLICATION NUMBER: US/09/277,078
CURRENT FILING DATE: 1999-03-26
                                                                                                                                                                                                                                                                                                                                                                                                            sequence 39, Application US/09277078
Patent No. 6312949
GENERAL INFORMATION:
                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS:
                                                                                                     LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
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                                 PEATURE: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: n =
                                                                                  OTHER INFORMATION: Oligonucleotide for PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2351 TGTGGGAGATCTTCACTTTAGG 2372
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Pred. No. 21;
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RESULT 14 US-07-741-940-61/c

Sequence 61, Application US/07741940 Patent No. 5352775 GENERAL INFORMATION:

APPLICANT:

ALBERTSEN, HANS

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Best Local Similarity
Matches 18; Conserva
                                                                                                       ; HYPOTHETICAL:
; ANTI-SENSE: 1
US-08-951-923-33
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US-08-951-923-33/c
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                                                     Matches
                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 33, Application US/08951923 Patent No. 6048693
                                                                                                                                                                                                                                                                                                                                                              ZIP: 94306-2155

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Ve

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/951,923

FILING DATE: October 16, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION: APPLICANT: Bitter
                                                                                                                                                                                                              TELEX: 380816COOLEYPA INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: misc_feature
LOCATION: (0)...(0)
                                                                                                                                              MOLECULE TYPE:
                                                                                                                                                                                                                                                                                               CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Neeley, Richard L.
REGISTRATION NUMBER: 30,0
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION:
                                                                                                                                                                                                                                                                    TELEPHONE: 650 843-5000
                                                                                                                                                                                                                                  STREET: 5 Palo 1 CITY: Palo Alto
                                                                                                                                                            TOPOLOGY:
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                                                                                                                                                                        STRANDEDNESS:
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                  2201 CAGACTTTGGACTCGCCAGA 2220
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20 CAGACTTTGGACTAGCCAGA 1
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                                                                                                                                                                                 nucleic acid
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VENTION: PHENOTYPIC ASSAYS OF CYCLIN/CYCLIN-DEPENDENT KINASE
                                                     Conservative
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    Mismatches

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Pred. No. 19;
                                                                Score 18.4;
Pred. No. 20;
                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                         Version
                                                                            DB 1;
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                                                                            Length 20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
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TELEFAX: 202-508-9299
INFORMATION FOR SEQ ID NO: 6
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                        APPLICANT: APPLICANT:
                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: Kagan, Sarah A.
REGISTRATION UNMEER: 32,141
REFERENCE/DOCKET NUMBER: 1107.035574
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: KINZLER, KENNETH
APPLICANT: MARKHAM, ALEXANDER F.
APPLICANT: NAKAMURA, YUSUKE
APPLICANT: THLIVERIS, ANDREW
TITLE OF INVENTION: INHERITED AND SOMATIC MUTATIONS OF APC
TITLE OF INVENTION: GENE IN COLORECTAL CANCER IN HUMANS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES:
                                                                                                                                        APPLICANT:
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FILING DATE: 19920109
CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 24 base pairs
TYPE: NUCLEIC ACID
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                                                                     LE OF INVENTION:
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T: GENER, JUANN...
IT: HEDGE, PHILIP J.

NT: JOSLYN, GEOFF
ANT: KINZLER, KENNETH
ANT: MARKHAM, ALEXANDER F.

PANT: NAKAMURA, YUSUKE
CANT: THLIVERIS, ANDREW
3 OF INVENTION: INHERITED AND SOMATIC MUTATIONS OF APC
TOTAL TOTAL TOTAL CANCER IN HUMANS
102
                                                                                                                                                                                                                                                                            INFORMATION:
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1001 G Street, NW
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HEDGE, PHILIP J.
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GRODEN, JOANNA
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87.0%; Pred. No. 32;
tive 0; Mismatches
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US-08-452-654-61/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: 202-508-9299
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION: APPLICANT: ALBERT
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: FORM:
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ORIGINAL SOURCE:
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                                               ZIP: 20001-4598
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner, Birc
STREET: 1001 G Street,
                                                                                                                                                                                                 TITLE OF INVENTION: INHERITED AND SOMATIC MUTATIONS OF APC
TITLE OF INVENTION: GENE IN COLORECTAL CANCER IN HUMANS
NUMBER OF SEQUENCES: 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: 11
TELECOMMUNICATION INFORMATION:
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ADDRESSEE: Banner & Allegretti,
STREET: 1001 G Street, NW
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Local Similarity 87.0%;
es 20; Conservativo
                                                                                                                      STATE:
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STRANDEDNESS: sing
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                 COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                   COUNTRY:
                                                                                                                                 CITY: Washington
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HEDGE, PHILIP J.
JOSLYN, GEOFF
                                                                                                     USA
                                                                                                                                                                                                                                                    NAKAMURA, YUSUKE
THLIVERIS, ANDREW
                                                                                                                                                                                                                                                                                     KINZLER, KENNETH MARKHAM, ALEXANDER F.
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PatentIn Release #1.0,
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reet, NW
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Pred. No. 3;
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 Version #1.25
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COUNTRY: USA
ZIP: 20001-4598
ZIP: 20001-4598
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/452,655B
FILING DATE: 25-MAY-1995
CLASSIFICATION: 530
PRIOR APPLICATION NUMBER: US/08/289,548
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; Sequence 61, Application US/08452655B
; Patent No. 5783666
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
INFORMATION FOR SEQ ID NO: 61:
SEQUENCE CHARACTERISTICS:
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APPLICANT:
APPLICANT:
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ORIGINAL SOURCE:
ORGANISM: Hom
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               APPLICATION NUMBER: US 01
FILING DATE: 12-AUG-1994
PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: INHERITED AND SOMATIC MUTATIONS OF APC
TITLE OF INVENTION: GENE IN COLORECTAL CANCER IN HUMANS
NUMBER OF SEQUENCES: 102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 08-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Kagan, Sarah A.
REGISTRATION NUMBER: 32,
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APPLICATION NUMBER: 1
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CITY: Washington
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Local Similarity 87.0%;
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HEDGE, PHILIP J.
JOSLYN, GEOFF
KINZLER, KENNETH
MARKHAM, ALEXANDER F.
NAKAMURA, YUSUKE
THLIVERIS, ANDREW
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1001 G Street, NW
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US 07/741,940
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Pred. No. 32;
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RESULT 18
US-08-450-582-61/c
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                                                                                                                                                      COUNTRY: USA
ZIP: 2001-4598
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/08/450,582
FILING DATE:
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Best Local Similarity 87.0%;
Matches 20; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                          CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: US 08/452,655
FILING DATE: 25-MAX-1995
APPLICATION NUMBER: US 08/289,548
FILING DATE: 12-AUG-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/741,940
FILING DATE: 08-AUG-1991
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APPLICANT:
APPLICANT:
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ATTORNEY/AGENT INFORMATION:
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TELECOMMUNICATION INFORMATION:
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ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION:
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STRANDEDNESS: single
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THLIVERIS, ANDREW
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KINZLER, KENNETH
MARKHAM, ALEXANDER F.
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HEDGE, PHILIP J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ANAND, RAKESH
CARLSON, MARY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ALBERTSEN, HANS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sarah A.
                                                                                                                                                                                                                                                                                                                                                                                                             INHERITED AND SOMATIC MUTATIONS GENE IN COLORECTAL CANCER IN HUP
                                                                                                                                                                                                                                                                                                                                                                                                102
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Pred. No. 3
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US-08-449-731-61/c
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US-08-450-582-61
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 1.3%;
Best Local Similarity 87.0%;
Matches 20; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
INFORMATION FOR SEQ ID NO: 61:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE:
ORIGINAL SOURCE:
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TOPOLOGY: lir
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                                                                                                                                                                     APPLICATION NUMBER: US/08/449,731
FILING DATE: 25-May-1995
CLASSIFICATION: -Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/289,548
FILING DATE: 12-AUG-1994
ATTORNEY/AGENT INFORMATION:
                                                                          REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION: TELEPHONE: 202-508-9100
                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAKAMURA, YUSUKE
THLIVERIS, ANDREW
TITLE OF INVENTION: INHERITED AND SOMATIC MUTATIONS OF APC
GENE IN COLORECTAL CANCER IN HUMANS
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ANAND, RAKESH
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                                                                                                                                  NAME: Kagan, Sarah A. REGISTRATION NUMBER: 32,141
                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Washington
                                                           TELEFAX: 202-508-9299
                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Banner & Allegretti, LTD
STREET: 1001 G Street, NW
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HEDGE, PHILIP J.
JOSLYN, GEOFF
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MARKHAM, ALEXANDER F.
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Pred. No. 32;
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                                                                                                                         ; ANTI-SENSE: US-08-951-923-26
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US-08-951-923-26/c
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Patent No. 6048693
                                                               Matches
                                                                                           Query Match
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MEDIUM TYPE: Flopy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Pacentin Release #1.0, Ve.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/951,923
FILING DATE: October 16, 1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MACLEY B: CD-741.
                                                                                                                                                                                                                                                                   TELEFAX: 650 857-0663
TELEX: 380816COOLEYPA
INFORMATION FOR SEQ ID NO:
                                                                                                                                                        MOLECULE TYPE: HYPOTHETICAL:
                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                 NAME: Neeley, Richard L.
REGISTRATION NUMBER: 30,092
REFERENCE/DOCKET NUMBER: BITT-001/02US
TELECOMMUNICATION INFORMATION:
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                                                                           Local
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STREET: 5 Palo Alto Square, 3000 El Camino Real
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ORIGINAL SOURCE:
                               2203 GACTTTGGACTCGCCAGAGAT 2223
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21
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                                                              l Similarity
19; Conserv
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 GACTITGGACTAGCCAGAGCT 1
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650 857-0663
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larity 90.5%;
Conservative
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                                                            Score 17.8; D
Pred. No. 28;
0; Mismatches
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Pred. No. 32;
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US-08-910-629A-62/c ; Sequence 62, Application US/08910629A ; Patent No. 5877309

RESULT 21

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APPLICANT: McKay, Robert A.
APPLICANT: McKay, Robert A.
APPLICANT: Monia, Brett
APPLICANT: Monia, Brett
APPLICANT: Nonia, Brett
APPLICANT: Nonia, Brett
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
TILE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
TILE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
TILE OF INVENTION: 138PH-0350
CURRENT APPLICATION NUMBER: US/09/287,796A
CURRENT FILING DATE: 1999-04-07
EARLIER FILING DATE: 1998-08-07
EARLIER FILING DATE: 1998-08-03
EARLIER FILING DATE: 1999-08-03
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Patent No. 6133246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: Line
ANTI-SENSE: Yes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: IS TELECOMMUNICATION INFORMATION: TELEPHONE: (609) 779-2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
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CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Jane Massey Licata
REGISTRATION NUMBER: 32,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/08/910,629A FILING DATE: August 13, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB MEDIUM TYPE: STORAGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: Nucleic Acid
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                                                                                                                                                                                                                                                                                                                                                                                                                         2642 GTTCTTCAGGAGATGAT 2658
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Brett Monia
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86
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COMPOSITONS AND METHODS FOR THE MODULATION OF JNK
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100.0%; Pred. No.
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US-09-277-078-40/c
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US-09-130-616-62/c
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LENGTH: 20
TYPE: DNA
                                                              CURRENT APPLICATION NUMBER: US/09/277,078
CURRENT FILING DATE: 199-03-26
CURRENT FILING DATE: 199-03-26
NUMBER OF SEQ ID NOS: 60
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 40
LENGTH: 20
                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 62
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                Sequence 40, Application US/09277078 Patent No. 6312949
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: McKay, Robert A.
APPLICANT: Dean, Nicholas M.
APPLICANT: Monia, Brett
APPLICANT: Nero, Pam
APPLICANT: Gaarde, William A.
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
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                                                                                                                                                                              APPLICANT: Sakurada, Kazuhiro
APPLICANT: Palmer, Theo
APPLICANT: Gage, Fred H.
TITLE OF INVENTION: REGULATION OF TYROSINE HYDROXYLASE
TITLE OF INVENTION: EXPRESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILE REPERENCE: ISPH-0318
CURRENT APPLICATION NUMBER: US/09/130,616C
CURRENT FILING DATE: 1998-08-07
EARLIER APPLICATION NUMBER: 08/910,629
EARLIER FILING DATE: 1997-08-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Artificial Sequence FEATURE:
OTHER INFORMATION: Oligonucleotide for PCR
                                                   TYPE: DNA
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                                ORGANISM: Artificial Sequence
                 EATURE
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No. 6221850
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Conservative (
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100.0%; Pred. No.
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100.0%; Pred. No.
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                                                                                        US-09-433-699-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Donna T. Ward
APPLICANT: Andrew T. Watt
TITLE OF INVENTION: ANTISENSE MODULATION OF RECQL2 EXPRESSION
FILE REFERENCE: RTS-0207
CURRENT FILING DATE: 2001-03-01
NUMBER OF SEQ ID NOS: 89
SEQ ID NO 38
SEQ ID NO 38
SEQ ID NO 38
CORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 38, Applicate Patent No. 6399378 GENERAL INFORMATION:
                                     Query Match
Best Local Similarity
                                                                                                                                                                       SEQ ID NO 42
                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                    Sequence 42, Application US/09433699B
Patent No. 6165786
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Best Local Similarity
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                                                                                                                                                                                APPLICANT: C. Frank Bennett
APPLICANT: Lex M. Cowsert
TITLE OF INVENTION. ANTISENSE MODULATION OF NUCLEOLIN EXPRESSION
FILE REFERENCE: RTS-0109
CURRENT APPLICATION NUMBER: US/09/433,699B
CURRENT FILING DATE: 1999-11-03
NUMBER OF SEQ ID NOS: 89
                                                                                                                            LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
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NAME/KEY: misc_feature
LOCATION: (0)...(0)
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OTHER INFORMATION: h = A,
                                                                                                  FEATURE: OTHER INFORMATION: Antisense Oligonucleotide
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NAME/KEY: misc_feature
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hes 17; Conserv
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1878, GGAGATGATGAAGATGAT 1895
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                             Conservative
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Pred. No. 38;
2; Mismatches
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                                         Score 16.4;
Pred. No. 49
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Pred. No. 3
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                             Indels
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US-08-863-639A-44/c
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                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                               Patent No. 5981185
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                   Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (626) 795-63
INFORMATION FOR SEQ ID NO:
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APPLICATION NUMBER: US/08,
FILING DATE: MAY 28, 1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
                                                                                                    APPLICANT: Matson, Robert S.
APPLICANT: Coassin, Peter J.
APPLICANT: Rampal, Jang B.
APPLICANT: Caskey, C. T.
APPLICANT: Caskey, C. T.
                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: 1: MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION: TELEPHONE: (626) 796-4000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS
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                                                                      CORRESPONDENCE ADDRESS:
                                                                                         NUMBER OF SEQUENCES:
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STREET: 225 South Lake Avenue,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Joseph E. Mueth
REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 91101
COUNTRY:
                            CITY: Pasadena
                                           STREET:
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                                                          ADDRESSEE:
                                                                                                                                                                                                                                                                                                                     1875 GATGGAGATGATGAAGATGAT 1895
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5981185
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                                           225 South Lake Avenue,
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Pred. No. 53;
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                                            9th Floor
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CURRENT APPLICATION NUMBER: US/09/100,398; CURRENT FILING DATE: 1998-06-19; NUMBER OF SEQ ID NOS: 17; SOFTWARE: PATENTIN VEr. 2.0; SEQ ID NO 2; LENGTH: 20; TYPE: DNA; ORGANISM: primer
US-09-100-398-2
                                                                                                                                                                                                                                               RESULT 30
US-09-226-012-39/c
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US-09-100-398-2/c
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GENERAL INFORMATION:
APPLICANT: Keating, Mark T.
APPLICANT: Splawski, Igor
APPLICANT: Splawski, Igor
TITLE OF INVENTION: MUTATIONS IN AND GENOMIC STRUCTURE OF HERG
TITLE OF INVENTION: SYNDROME GENE
                                                                                                                                                                            Sequence 39, Application US/09226012 Patent No. 6207383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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Patent No. 5965712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: LZ-CD23 CHIMERA FOR INHIBITION OF IGE-MEDIATED TITLE OF INVENTION: ALLERIGIC DISEASE FILE REFERENCE: 294066AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Conrad, Danie APPLICANT: Kelly, Ann E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: (626) 795-632
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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REFERENCE/DOCKET NUMBER: 11
TELECOMMUNICATION INFORMATION:
TELEPHONE: (626) 796-4000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION: NAME: Joseph E. Mueth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Corel WordPe
CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: LBM COMPUTER: COMPUTER: Windows yo OPERATING SYSTEM: Windows yo OPERATING SYSTEM: WINDOWS YOU OPERATION OF THE COMPUTER OF THE COMPU
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Local Similarity 89.5%;
es 17; Conservation
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TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
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DN: 435
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795-6321
NO: 65:
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Pred. No. 5
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US-09-733-294A-61
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Best Local S
Matches 17
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LENGTH: 20
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Patent No. 649217
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Best Local Similarity 89.5%;
Matches 17; Conservative
                                                                                                                                                                                                     Patent No. 6346398
GENERAL INFORMATION:
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CURRENT APPLICATION NUMBER: US/09/226,012
CÜRRENT FILING DATE: 1999-01-06
EARLIER APPLICATION NUMBER: 09/122,847
EARLIER FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: 09/572,423
PRIOR FILING DATE: 2000-05-16
NUMBER OF SEQ ID NOS: 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: ANTISENSE MODULATION OF TERT EXPRESSION FILE REFERENCE: ISPH-0527 CURRENT APPLICATION NUMBER: US/09/733,294A CURRENT FILING DATE: 2000-12-07
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                                                       TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Antisense Oligonucleotide
                           CORRESPONDENCE ADDRESS:
                                               NUMBER OF SEQUENCES:
                                                                                                                                             APPLICANT:
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                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                     APPLICANT: Pavco, Pamela
                ADDRESSEE:
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17; Conserv
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Edward V. Wancewicz
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633 West Fifth Street
                                                                                                                                                         McSwiggen, James
Stinchcomb, Dan
                                                                                                                                                                                                                                      Application US/08584040
                                                                                                                                        Escobedo,
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                                                                                                                           METHOD AND REAGENT FOR THE
                                                                           TREATMENT OF DISEASES OR CONDITIONS RELATED TO LEVELS OF VASCULAR ENDOTHELIAL
                                                            GROWTH FACTOR
                                                                                                                                             Jaime
                                               8502
                                                                                                                                                         Dan T.
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Pred. No. 56;
0; Mismatches
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; LENGTH: 17
; TYPE: RNA
; ORGANISM: Mus sp.
US-09-371-772B-3391
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
                                                                                                                                                               PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR PILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
SOFTWARE: PatentIn version 3.0
SEQ ID NO 3391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 3391, Application US/09371772B Patent No. 6566127
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                                          Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                              APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MeBHB00, 876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/
FILING DATE: January 11
CLASSIFICATION: 514
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MEDIUM TYPE: 3.5" Diskette,
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
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APPLICATION NUMBER: 60/005,974
APPLICATION NUMBER: 26, 1995
PILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
PMATCH 1.1%;
Local Similarity 76.5%;
Local Similarity 76.5%;
Local Similarity 76.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 21
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STATE: California
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Similarity 76.5%;
13; Conservative
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 Mismatches

                            Score 15.4;
Pred. No. 47;
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Pred. No. 4
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                                                DB 1;
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                                            Length 17;
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RESULT 35
US-09-555-889A-5/c
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Best Local Similarity
Matches 14; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 5, Application Patent No. 6429299
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: PatentIn version 3.0 SEQ ID NO 4818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
TITLE OF INVENTION: Mevels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR FILING DATE: 1995-10-26
PRIOR FILING DATE: 1996-01-08
NUMBER OF SEO ID NOS: 14225
COUNTAINE DESCRIPT VERSION 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Ribozyme Pharmaceuticals, Inc. APPLICANT: Pavco, Pam APPLICANT: McSwiggen, Jim APPLICANT: Stinchcomb, Dan APPLICANT: Escobedo, Jaime
                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PAt-ENTIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/555,889A
FILING DATE: 09-Apr-2001
INFORMATION FOR SEQ ID NO: 5:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: RNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 17
                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
                                                                       SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: Nucleotide sequence encoding the tomato light hypersensitive phenotype, coded proteins and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Bowler, Chris
Mustilli, Anna Chiara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2105 CCAGAGGCATGGAGTAC
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LENGTH: 19 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Robert J. Jondle
STREET: 555 13th Street NW,
CITY: Washington
STATE: District of Columbia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Application US/09555889A
                                                                                                                                                                                                                                                                                                                   COUNTRY: USA
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Pred. No. 47;
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RESULT 37
US-08-913-050A-3
; Sequence 3, Application US/08913050A
; Patent No. 5827726
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US-08-368-704C-89/c
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                                                                                                                                                                                                                    US-08-368-704C-89
                                                                                                                                                          Query Match
Tocal Similarity
                                                                                                                                                        Matches
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                                                                                                                                                                                                                                                                                                          TELEFAX: (202) 371-254
TELEX: 248636 SSK
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/080,850
FILING DATE: 24-UTW-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                     TELEPHONE: (202) 371-2600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/258,287
FILING DATE: 10-UUN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Yuan, Junying APPLICANT: Miura, Masayuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                      NAME: Bugaisky, Lawrence B. REGISTRATION NUMBER: 35,086 REFERENCE/DOCKET NUMBER: 06
                                                                                                                                                                                                                                              STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: FILING DATE: 4-JAN-: CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STATE: D.C.
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                                                                                                                                                                                                                                                                              ENGTH:
                                                                                                                 1878-GGAGATGATGAAGATGA 1894
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                                                                                                                                                        16;
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                                                                                                                                                                                                                                                              nucleic acid
                                                                                                                                                                                                                                                                            20 base pairs
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1100 New York Avenue,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          USA
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                                                                                                                                                                     Score 15.4;
Pred. No. 6
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                                                                                                                                                      Pred. No. 66;
); Mismatches
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Pred. No. 59
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                                                                                                                                                                                 DB 1;
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                                                                                                                                                                                 Length 20;
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; OTHER INFORMATION: Antisense Oligonucleotide US-09-658-688A-24
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US-09-658-688A-24
; Sequence 24, Application US/09658688A
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                                                                                                                                          NUMBER OF SEQ ID NOS:
SEQ ID NO 24
LENGTH: 20
TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:

APPLICANT: Donna T. Ward
APPLICANT: William Gaarde
APPLICANT: Brett P. Monia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
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Best Local Similarity 70.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Patent No.
                                                                                                                                                                                                                                                                      TITLE OF INVENTION: ANTISENSE MODULATION FILE REFERENCE: RTS-0143 CURRENT APPLICATION NUMBER: US/09/658,688A CURRENT FILING DATE: 2000-09-08 NUMBER OF TELEVISION OF THE PROPERTY OF THE PROPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 16-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION UNMBER: JP PCT/JP96/00660
FILING DATE: 15-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: YUN, Allen C.
REGISTRATION NUMBER: 37,971
REFERENCE/DOCKET NUMBER: NEZU=4
                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Jacqueline Wyatt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: (202) 737-3528 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: DNA ENCODING PROTEIN KINASE NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEB: BROWDY ****
STREET.
                                                                       FEATURE:
                                                                                                        ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/913,050A
FILING DATE: 05-SEP-1997
PRIOR APPLICATION DATA:
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MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION: TELEPHONE: (202) 628-5197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRANDEDNESS:
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|| || || ||:||:| ||
1 GTNGCNGTNAARATGYTNAA 20
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nucleic acid
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Pred. No. 7:
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0,

Query Match

1.1%; Score 15.2;

DB 1;

Length 20;

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APPLICANT: BRENTANO, Steven T.

APPLICANT: BABOLA, Odile
APPLICANT: TRAN, Nathalie
APPLICANT: TRAN, Nathalie
APPLICANT: VERNET, GUY
ITLE OF INVENTION: AMPLIFICATION OF HIV-1 SEQUENCES FOR DETECTION OF
ITLE OF INVENTION: SEQUENCES ASSOCIATED WITH DRUG-RESISTANCE MUTATIONS
ITLE REFERENCE: GP114-02.UT
CURRENT APPLICATION NUMBER: US/09/944,036
CURRENT FILING DATE: 2001-08-31
PRIOR APPLICATION UMMBER: US 60/229,790
PRIOR PILING DATE: 2000-09-01
NUMBER OF SEQ ID NOS: 70
SOPTWARE: Patentin Ver. 2.1
SEQ ID NO 19
LENGTH:
                                               NAME/KEY: modified base

COCATION: (1)...(2)

OTHER INFORMATION: 2'-O-methyladenosine

NAME/KEY modified base

LOCATION: (3)...(4)

OTHER INFORMATION: gm
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US-09-944-036-19
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US-09-198-452A-5279
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APPLICANT: Griffals, R.
APPLICANT: Griffals, R.
TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, preve
TITLE OF INVENTION: and treatment of infection
FILE REFERENCE: 9710-003-999
CURRENT APPLICATION NUMBER: US/09/198,452A
CURRENT FILING DATE: 1998-11-24
RUMBER OF SEQ ID NOS: 6849
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Sequence 19, App.--
Sequence 19, App.--
No. 6582920
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LENGTH: 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity 85.0%; Pred. No. 71; Matches 17; Conservative 0; Mismatches
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  Best Local Similarity
                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA ORGANISM: Chlamydia pneumoniae
                                                                                                                                                                                                              OTHER INFORMATION: Description of Artificial Sequence: OTHER INFORMATION: Oligonucleotide primer for Protease target OTHER INFORMATION: sequence
                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.1%;
Local Similarity 85.0%;
es 17; Conservaring
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  1.1%;
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Pred. No. 71;
Score 15.2; DB 1; Pred. No. 71;
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RESULT 42
US-08-585-684B-1806
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                                                                                                                                 Best Local Similarity 73.3%; Matches 11; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM: IBM P.C. DOS 5
SOFTWARE: FASCEGO VERSION 1.5
CURRENT APPLICATION DATA:
MAPPLICATION NUMBER: US/08/585,68
FILLING DATE: January 16, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/000,951
APPLICATION NUMBER: 60/000,951
APPLICATION NUMBER: 32,327
ATTORNEY/AGENT INFORMATION:
NAME: WALDURG, RICHARD
REGISTRATION NUMBER: 32,327
                                                                                                                                                                                                                                                                                                     TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
COMPUTER: TAM D C DOS 5.0
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STREET: Suite 4700
CITY: Los Angeles
STATE: California
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APPLICANT: McSwiggen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                 TYPE: nucleic acid
STRANDEDNESS: sing
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ZIP: 90071
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                                                                                                        1373 AGGAGATTACAGCTT 1387
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                                                                       AGGAGAUUACAGCUU 15
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633 West Fifth Street
                                                                                                                                                                                                                                                                                      15 base pairs
                                                                                                                                                                                                                                                                                                                                                             (213) 955-0440
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                                                                                                                                                                                                                                    linear
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                                                                                                                                                              Score 15; DB
Pred. No. 42;
                                                                                                                                              Mismatches
                                                                                                                                                                                 DB 1;
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Sequence 1806, Application US/08585684B Patent No. 5877021

GENERAL INFORMATION:
APPLICANT: Stinch

APPLICANT:

Jarvis, Thale McSwiggen, Ja

Stinchcomb, Daniel

FITLE OF INVENTION:

.METHOD AND REAGENT FOR THE

TITLE OF INVENTION:

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US-08-585-684B-1807
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Best Local .
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                                                                                                                                                                                                                                                                                                                                                sequence
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FILING DATE: January 16, 1996
PRIOR APPLICATION DATA:
APPLICATION UMBER: 60/000,951
FILING DATE: July 7, 1995
ATTORNEY AGENT INFORMATION:
NAME: WARDLUTG, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEX: 67-3510
NFORMATION FOR SEQ ID NO:
                          COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                    TITLE OF INVENTION: METHOD AND REAGENT FOR THE TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE INTITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES NUMBER OF SEQUENCES: 2751
                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
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TELEPHONE: 1217
TELEPHONE: (213)
                                                                                                          CITY: Los Angeles
STATE: California
                                                                                                                                           STREET:
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TOPOLOGY: lir
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OPERATING SYSTEM:
                                                                                           COUNTRY:
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California
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                                                                                                                                                      E: Lyon & Lyon
633 West Fifth Street
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633 West Fifth Street
                                                                                                                                        Suite 4700
                                                                                          U.S.A.
                                                                                                                                                                                                                                                                   McSwiggen,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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FastSEQ Version 1.5
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73.3%;
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                                                                                                                                                                                                                                                                    James
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Pred. No.
DOS 5.0
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
NFORMATION FOR SEQ ID NO: 1805:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
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                                                                                                                                                                                                                                                                                                                                 FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
NAMS: Watburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
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CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Jarvis, Thale APPLICANT: McSwiggen, Jan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE/DOCKET NUMBER: 21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: January 16, 1996 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION DATA:
                                                                                                 TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: 150.

COMPUTER: 150.

OPERATING SYSTEM: IBM F...

OPERATING SYSTEM: IBM F...
                                  TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ITLE OF INVENTION:
                                      TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STATE:
                                                                                                                                                                                                                                                                                                            FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           U.S.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Application US/09038073
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Stinchcomb, Daniel T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lyon & Lyon
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AND REVERSAL OF IMMUNE RESPONSES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   METHOD AND REAGENT FOR THE INDUCTION OF GRAFT TOLERANCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOS 5.0
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GENERAL INFORMATI
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                                                                              Query Match
                                                                                                           STRANDEDNESS:
TOPOLOGY: lir
                                                                                                                                                                             TELEFAX: (213) 955-044
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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MEDIUM TYPE: 3.5" Diskette,
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM: IBM P.C. DO:
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES:
                                                                                                                                                TYPE: nucleic acid
                                                                                                                                                                                                         TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                      FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: 633 West Fifth Street STREET: Suite 4700
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Local Similarity 73.3%;
Local Similarity 73.3%;
Les 11; Conservative
                                                                                                                                                                                                                                                                       NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
                                                                                                                                                                                                                                                                                                                                                              FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: Los Angeles
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                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER:
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                         1373 AGGAGATTACAGCTT 1387
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      90071
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                                                                Similarity
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AGGAGAUUACAGCUU 15
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                                                      Conservative
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                                                                                                                                      single
                                                                 1.1%;
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                                                                                                                                                                                                                                                                                                                                 08/585,684
                                                                                                                                                                                            1806:
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                                                                 Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                 DOS 5.0
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                                                                              DB 1; Length 15;
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US-09-038-073-1807
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Patent No. 619415
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                                                                                                                                                                                                       Sequence 51, Application US/08951923 Patent No. 6048693
                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                   GENERAL INFORMATION:
APPLICANT: Bitter, Grant
TITLE OF INVENTION: PHEN
TITLE OF INVENTION: FUNC
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APPLICANT: JETVIS, Thale
APPLICANT: JETVIS, Thale
APPLICANT: JETVIS, Thale
APPLICANT: MCSWiggen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 15 base pairs
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STREET: Suite 4700
CITY: Los Angeles
STATE: California
" C.A.
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                 NUMBER OF SEQUENCES: 5
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                                                                                                                                                                                                                                                                                                                                                               Local Similarity 73.3%;
les 11; Conservative
                                 CITY: Palo Alto
STATE: CA
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TELEX: 67-3510
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OPERATING SYSTEM:
ZIP: 94306-2155
                                                                 STREET:
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633 West Fifth Street
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                                                                                     Cooley Godward LLP
                                                                                                                     PHENOTYPIC ASSAYS OF CYCLIN/CYCLIN-DEPENDENT KINASE FUNCTION
57
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                                                                                                                                                                                                                                                                                                                                                                                                 No. 42;
                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
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RESULT 49
US-09-632-580A-65/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 48
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US-08-951-923-51
                                            GENERAL INFORMATION:
                                                               Sequence 65, Application US/09632580A Patent No. 6255111
                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 87
SEQ ID NO 42
                                                                                                                                                                                                                                       Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 42, Application US/09205143 Patent No. 6107091
                                                                                                                                                                                                                           Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Lex M. COWSERT
TITLE OF INVENTION: ANTISENSE MODULATION OF G-ALPHA-16 EXPRESSION
FILE REFERENCE: RTS-0032
CURRENT APPLICATION NUMBER: US/09/205,143
CURRENT FILLING DATE: 1998-12-03
APPLICANT: C. APPLICANT: Lex M. TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: 650 857-0663
TELEX: 380816COOLEYPA
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                  LENGTH: 18
TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                      FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/951,923
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TELEPHONE: 650 843-5000
TELEFAX: 650 857-0663
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Neeley, Richard L. REGISTRATION NUMBER: 30, REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: OCCLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
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16; Conserv
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           Cowsert
                            Frank Bennett
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                                                                                                                                                                                                                                        88.9%;
ANTISENSE MODULATION OF HER-4 EXPRESSION
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Pred. No. 67;
0; Mismatches
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Pred. No. 67;
0; Mismatches 2;
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RESULT 50
US-08-149-105-10
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sest Local Similarity 88.9%;
Matches 16; Conservative
Matches
                             Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 65
LENGTH: 18
                                                                                                                                                                                                                                   APPLICATION NUMBER: 08/029,673
FILING DATE: March 11, 1993
APPLICATION NUMBER: 07/853,396
FILING DATE: March 18, 1992
ATTORNEY/AGENT IMPORMATION:
NAME: Clark, Paul T.
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 00786/2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE: RTS-0054
CURRENT APPLICATION NUMBER: US/09/632,580A
CURRENT FILING DATE: 2000-07-31
NUMBER OF SEQ ID NOS: 93
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                                                                                                                                       INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: Antisense Oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PS/Z MODEL 300 COMPUTER: IBM PS/Z MODEL 300 CORENTING SYSTEM: MS-DOS (Version 5.1)
SOFTWARE: WORDERFECT (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/149,105
                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: 530 PRIOR APPLICATION DATA:
                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION: TELEPHONE: (617) 542-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: 3.5" Di
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ADDRESSEE: Fish & Richardson
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TLE OF INVENTION:
                                                                                                                                                                                     TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE:
Local Similarity
                                                                           TOPOLOGY:
                                                                                          STRANDEDNESS:
                                                                                                                                                                                                     TELEPHONE:
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                                                                                                                          LENGTH:
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                                                                                                      nucleic acid
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                                                                                                                                                                                        (617) 542-8906
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Conservative
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SYSTEM: MS-DOS (Version 5.0)
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             1.0%;
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             Score 14.6;
Pred. No. 6
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Pred. No. 67
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Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 67;
                            DB 1;
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US-08-317-847-10
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                                                                                                                                                                                             RESULT 52
                                                                                                                                                                                                                                                                                                                                                                                                             US-08-317-847-10
                                                                                                          Sequence 20, Application US/08529878B Patent No. 5932556
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                   Query Match
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                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/029,673
FILING DATE: March 11, 1993
APPLICATION NUMBER: 07/853,396
FILING DATE: March 18, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Clark, Paul T.
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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OPBRATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA
APPLICATION NUMBER: US/08/317,847
                                APPLICANT: Tam, Robert C.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TITLE OF INVENTION: REGULATION OF CD28 EXPRESSION NUMBER OF SEQUENCES: 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Donahoe, Patrici
APPLICANT: Gustafson, Mich
APPLICANT: He Wei W.
TITLE OF INVENTION: FOUR NO
TITLE OF INVENTION: FAMILY
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson
STREET: 225 Franklin Street
                  CORRESPONDENCE ADDRESS
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ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                         ss: single
linear
Crockett & Fish
                                                                                                                                                                                                                                                                                                                              1.0%; Score 14.6; I
82.4%; Pred. No. 64;
tive 2; Mismatches
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US-08-541-950B-17
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Patent No. 5821046
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APPLICATION NUMBER: US/08/541,950B
APPLICATION UNBER: 10/10/95
PRIOR APPLICATION DATA:
APPLICATION UNMBER: 07/960,370
-FILING DATE: 03/19/93
ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kathleen M.
REGISTRATION NUMBER: 34,380
-REFERENCE/DOCKET NUMBER: 3777/57347
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9110
TELEPHONE: (617) 345-9111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
NAME: Fish, Robert D.
REGISTRATION NUMBER: 33,880
REFERENCE/DOCKET NUMBER: 213/
TELECOMMUNICATION INFORMATION:
TELEPHONE: 714-525-3433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                         COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: WOODPETFECT 6.1 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WOO'DEFFECT 6.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
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MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Karn J, Gait MJ, Heaphy S, Dingwall CTITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
                                                                                                                                                                                                                                                                                                                     CITY:
STATE: MA
TO: 02111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08/529,878B FILING DATE: 13-SEP-1995 CLASSIFICATION: 424
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                                                                                                                                                                                                                                                                                                                                                                          CITY: Boston
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California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Application US/08541950B
                                                                                                                                                                                                                                                                                                                                                                                         E: Banner & Witcoff, Ltd.
One Financial Center, 45th Floor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    unknown
                                                                                                                                                                                                                                                                                                  Diskette, 3.50 inch, 1.44 Mb storage
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                                                       3777/57347 (MRC-011AX)
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Pred. No. 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
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US-08-541-950B-20
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                                                                        Query Match
Best Local Similarity
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                                                           Matches
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FILING DATE: 10/10/95
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/960,37
FILING DATE: 03/19/93
ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kathle
REGISTRATION NUMBER: 34,380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                       TELEFAX: (617) 345-91
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: 37
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Karn J, Gait MJ, Heaphy S, Dingwall C TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                  MOLECULE TYPE:
                                                                                                                                NAME/KEY: misc_feature
LOCATION: 8
OTHER INFORMATION: N is 5-bromo-2'-deoxyuridine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDIUM TYPE: Diskette, 3.50 inch, COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                STRANDEDNESS: single TOPOLOGY: linear
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                            1490
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                           AGCCAGACTTCAGCAGC 1506
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AGCCAGANUUGAGCAGC 17
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                                                                                                                                                                                                                                                               17 bases
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                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linear
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                                                                         76.5%;
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                                                                                                                                                                                                                                                                                                                                                                                    Kathleen M.
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                                                                                                                                                                                                                                                                                                                                                         3777/57347 (MRC-Ollax)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.4;
Pred. No. 69
                                                                         Score 14.4;
Pred. No. 69;
                                                           Mismatches
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                                                                                        DB 1;
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                                                                                     Length 17;
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                                                         Indels
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RESULT 56
US-09-083-756A-20
Sequence 20, Application US/09083756A
Patent No. 6114109
GENERAL INFORMATION:
APPLICANT: KAIT J, Gait MJ, Heaphy :
TITLE OF INVENTION: VIRAL (HIV) GROINMER OF SEQUENCES: 26
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                                                                                                                                                                                                                                                                                                                                                                                             Matches
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Best Local Similarity
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Patent No. 6114109
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (617) 345-91
INFORMATION FOR SEQ ID NO:
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELECOMMUNICATION INFORMATION: TELEPHONE: (617) 345-9100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., K
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                                                                                                                                       CORRESPONDENCE ADDRESS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: synthetic
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STATE: Pu.
C2111
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OPERATING SYSTEM:
SOFTWARE: WordPer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRANDEDNESS: sir
TOPOLOGY: linear
                                                                           STATE:
                                                                                         CITY: Boston
                                                                                                          ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center, 45th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCATION: 8 OTHER INFORMATION: N is 2'-deoxythymidine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: misc_feature
LOCATION: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-Ollax)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/09/083,756A
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One Financial Center, 45th Floor
                                                                                                                                                          Karn J, Gait MJ, Heaphy S, Dingwall C
WENTION: VIRAL (HIV) GROWTH INHIBITION
SEQUENCES: 26
                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             single
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Pred. No. 6
                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY AGENT INFORMATION:
NAME: Williams, Ph.D., Kathle
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3777
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (617) 345-9111
INFORMATION FOR SEQ ID NO: 2
SEQUENCE CHARACTERISTICS:
LENGTH: 17 bases
                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF
                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: McSwiggen, James
APPLICANT: Stinchcomb, Dan T.
APPLICANT: Escobedo, Jame
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PRIOR APPLICATION DATA:
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                               PRIOR APPLICATION DATA:
                                                                                              CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                         TUMBER OF SEQUENCES:
                                                APPLICATION NUMBER: US/08/584,040 FILING DATE: January 11, 1996 CLASSIFICATION: 514
                                                                                                            OPERATING SYSTEM:
SOFTWARE: Word Pe
                                                                                                                                                                                                                                        CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                        STREET:
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OTHER INFORMATION: N is 5-bromo-2'-deoxyuridine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: misc_feature
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                                                                                                                                                                                                                                                                                                      ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1490 AGCCAGACTTCAGCAGC 1506
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13; Conserv
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                                                                                                                                                                                                                                                                                       E: Lyon & Lyon
633 West Fifth Street
                                                                                                                                                                                                                                                                          Suite 4700
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Application US/08584040
                                                                                                          SYSTEM: IBM P.C. Word Perfect 5.1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          linear
                                                                                                                                          IBM Compatible
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pamela
                                                                                                                                                                                                                                                                                                                                                                    TREATMENT OF DISEASES OR CONDITIONS RELATED TO LEVELS OF VASCULAR ENDOTHELIAL
                                                                                                                                                                                                                                                                                                                                                                                                                    METHOD AND REAGENT FOR THE
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                                                                                                                                                                                                                                                                                                                                                     GROWTH FACTOR
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60/005,974
er 26, 1995
                                                                                                                                                                                                                                                                                                                                       8502
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                                                                                                                            DOS 5.0
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; TYPE: RNA
; ORGANISM: Mus sp.
US-09-371-772B-2598
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                                                                                                                                                                                     RESULT 59
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US-09-371-772B-2598
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Best Local Similarity
Matches 12; Conserv
                                                                                                             Sequence 23, Application US/08541950B Patent No. 5821046 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn version 3.0 SEQ ID NO 2598
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: US 08/584,040 PRIOR FILING DATE: 1996-01-08 NUMBER OF SEQ ID NOS: 14225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor FILE REFERNCE: MEHBBO0, 876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
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APPLICANT: Pavco, Pam
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INFORMATION FOR SEQ ID NO:
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                                               NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
                                                                                TITLE OF INVENTION:
                                                                                                 APPLICANT:
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STREET: One CITY: Boston
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                               ADDRESSEE:
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EDNESS: single
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Stinchcomb, Dan
Escobedo, Jaime
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               One Financial Center, 45th Floor
                                                                                 Karn J, Gait MJ, Heaphy S, Dingwall C
VVENTION: VIRAL (HIV) GROWTH INHIBITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (213) 955-0440
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                             Banner & Witcoff, Ltd
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Pred. No. 69;
3; Mismatches
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RESULT 61
US-09-083-756A-23
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US-09-205-922-30
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                                                                                                                                                                                                                                                                                  SEQ ID NO 30
LENGTH: 18
TYPE: DNA
                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
APPLICANT: Lex M. COMBERT
TITLE OF INVENTION: ANTISENSE MODULATION OF G-APLHA-11 EXPRESSION
FILE REFERENCE: RTS-0030
CURRENT FILING NUMBER: US/09/205,922
CURRENT FILING DATE: 1998-12-04
NUMBER OF SEQ ID NOS: 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 30, Applio Patent No. 5951455
                                                                                                                                                    Matches
                                                                                                                                                   Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                   Query Match
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Wordberfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/541,950
FILING DATE: 10/10/95
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
                                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                 OTHER INFORMATION: Antisense Oligonucleotide
                                                                                                                                                                                                                                                   FEATURE:
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LENGTH: 18 bases
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 07/9
FILING DATE: 03/19/93
ATTORNEY/AGENT INFORMATION:
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MEDIUM TYPE: Diskett
COMPUTER: IBM PC com
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mes 13; Conserv
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LOCATION: 8
OTHER INFORMATION: N is 4-thio-2'-deoxythymidine
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TOPOLOGY: lir
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                                                                                                                   1814 TGGCCGTGAAGATGTT 1829
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                                                                                    TGGCGGTGAAGATGTT 16
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      Application US/09083756A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Application US/09205922
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                                                                                                                                                                Score 14.4;
Pred. No. 78;
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Pred. No. 78
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                                                                                                                                                    Mismatches
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RESULT 62
US-09-658-645A-5
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US-09-658-645A-5
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                                                                                                    SOFTWARE: PatentIn Ver. SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity Matches 13; Conserv
                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                        Sequence 5, Application US/09658645A Patent No. 6423518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                      TITLE OF INVENTION: Design and Production of Mutant 2,5-Diketo-D-gluconic TITLE OF INVENTION: Acid Reductase Enzymes with Altered Cofactor Dependen FILE REFERENCE: RU-0078
CURRENT APPLICATION NUMBER: US/09/658,645A
CURRENT FILING DATE: 2000-09-11
NUMBER OF SEQ ID NOS: 12
                                                                                                                                                                                                                                                 APPLICANT: Anderson, Stephen APPLICANT: Banta, Scott
                                           ORGANISM: Artificial Sequence
                                                                    TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (617) 345-9111 INFORMATION FOR SEQ ID NO:
             OTHER INFORMATION: Description of Artificial Sequence:
                                  FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: 37
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: synthetic
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TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
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STATE: Na.
STATE: 02111
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LOCATION: 8
OTHER INFORMATION: N is 4-thio-2'-deoxythymidine
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REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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STREET: One Financial Center, 45th Floor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    1490 AGCCAGACTTCAGCAGC 1506
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Pred. No. 78
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             Synthetic
                                                                                                                                                                                                             Cofactor Dependency
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; ORGANISM: Homo sapiens
US-09-371-772B-4817
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 84, Application US/09338907 Patent No. 6265546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 1.0%;
Best Local Similarity 85.7%;
Matches 12; Conservative
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                                                                                                                          SEQ ID NO 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 199-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1995-01-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/338,907
CURRENT FILING DATE: 1999-06-23
EARLIER APPLICATION NUMBER: 08/996,306
EARLIER FILING DATE: 1997-12-22
                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Ilya, Chumakov
APPLICANT: Bougueleret, Lydie
TITLE OF INVENTION: PROSTATE CANCER GENE
FILE REFERENCE: GENSET.18CP1CP
                                                                                                                                                                                         EARLIER APPLICATION NUMBER: 60/099,658
EARLIER FILING DATE: 1998-09-09
EARLIER APPLICATION NUMBER: 09/218,207
EARLIER FILING DATE: 1998-12-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ENERAL INFORMATION:
                                                                                                                                                                     NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Cohen, Daniel
APPLICANT: Blumenfeld, Marta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 14225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Ribozyme Pharmaceuticals, Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
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                                                       TYPE: DNA
ORGANISM: Mus Musculus
AME/KEY: misc_feature
                                                                                                        ENGTH: 17
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Escobedo, Jaime
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McSwiggen, Jim
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Pred. No. 81;
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0; Mismatches
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US-08-584-040-4205
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US-09-218-207-84/c
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LENGTH: 17
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Best Local Similarity
Matches 15; Conserv
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                                                                                                                                                                                                                                                                                            Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILE REFERENCE: GENSET.018CP1
CURRENT APPLICATION NUMBER: US/09/218,207
CURRENT FILING DATE: 1998-12-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Cohen, Daniel
APPLICANT: Blumenfeld, Marta
APPLICANT: Ilya, Chumakov
APPLICANT: Bougueleret, Lydie
TITLE OF INVENTION: Prostate cancer gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS: 578
SOFTWARE: Patent.pm
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EARLIER FILING DATE: 1997-12-22
EARLIER APPLICATION NUMBER: 60/099,658
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                                                                                                                            TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
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LOCATION: 1..17
OTHER INFORMATION: sequencing oligonucleotide moPGrace5R444
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                                                                                                                                                                                                          APPLICANT: Stinchcomb
APPLICANT: Escobedo,
                                                                                                                                                                                                                                           APPLICANT: McSwiggen, James
                                                                                            CORRESPONDENCE ADDRESS:
                                                                                                             NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                           APPLICANT:
                                        STREET: 633 West Fifth Street
STREET: 643 West Fifth Street
STREET: Suite 4700
COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Match 1.0%; ocal Similarity 88.2%;
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                              Los Angeles
                                                                                                                                                                                                                                                                                              6346398
             California
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Escobedo, Jaime
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                                                                                                                                           METHOD AND REAGENT FOR THE
TREATMENT OF DISEASES OR
CONDITIONS RELATED TO LEVEL
OF VASCULAR ENDOTHELIAL
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                                                                                                                                GROWTH FACTOR
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Pred. No. 87;
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Pred. No. 8
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TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 42
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                               APPLICANT: McSwiggen, James
APPLICANT: Stinchcomb, Dan T.
APPLICANT: Stinchcomb, Daine
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: TREATMENT OF DISEASES OR
TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
TITLE OF INVENTION: GROWTH FACTOR
                                             SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: January 1
                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/005,97.
FILING DATE: OCCODER 26, 1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS
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                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES:
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                                                                                                           COMPUTER: IBM CON
OPERATING SYSTEM:
                                                                                                                                                                                                                                           CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                             STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity 58.8 ses 10; Conservative
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REGISTRATION NUMBER: 3:
                                CLASSIFICATION:
                                                                                                                                                                                                                            COUNTRY:
                                                                                                                                                                                                                                                                                                                ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OPERATING SYSTEM: IBM P.C. DOS 5.0 SOFTWARE: Word Perfect 5.1
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 APPLICATION NUMBER:
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                                                                                                                                                                                                          90071-2066
                                                                                                                                                                                                                                                                               Suite 4700
                                                                                                                                                                                                                                                                                            E: Lyon & Lyon
633 West Fifth Street
                                                                                                                                                                                                                              U.S.A.
                                                                                                  IBM Compatible SYSTEM: IBM P.C. Word Perfect 5.1
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January 11, 1996
                                                 January 11,
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60/005,974
                                               US/08/584,040
Y 11, 1996
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Pred. No. 8
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RESULT 68
US-08-584-040-4242
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SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                      COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/584,040
FILING DATE: January 11, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/005,974
FILING DATE: October 26, 1995
ATTORNEY/ACENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 32,327
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Best Local Similarity 58.8%;
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Patent No. 6346398
GENERAL INFORMATION:
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Escobedo, CITILE OF INVENTION: MITITLE OF INVENTION: TITLE OF INVENTION: COTITLE OF INVENTION: OF INVENTION: GITTLE OF INVEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Pavco, Pamela
APPLICANT: McSwiggen, James
APPLICANT: Stinchcomb, Dan T.
APPLICANT: Escobedo, Jaime
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: 21
TELECOMMUNICATION INFORMATION:
                                       TELEFAX: 10-10 SEQ
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                                                                   TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STREET: 633 West rustreet: Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Los Angeles
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: (213) 489-16
TELEFAX: (213) 955-0440
TELEX: 67-3510
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REGISTRATION NUMBER: 32,327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY:
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633 West Fifth Street
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TREATMENT OF DISEASES OR
CONDITIONS RELATED TO LEVEI
OF VASCULAR ENDOTHELIAL
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Pred. No. 8
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US-08-584-040-4357
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                                                                  Query Match
Best Local Similarity
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Best Local
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                                                                                                                                                                                           TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                     REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 211
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
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OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                  STRANDEDNESS:
TOPOLOGY: li
                                                                                                                                                                                                                                                                                                   NAME: Warburg, Richard REGISTRATION NUMBER: 32
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STATE: California
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Local Similarity 52.9%;
es 9; Conservation
                                                                                                                                                                                                                                                                                                                                               FILING DATE: October 26,
                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
                                                                                                                                                                              LENGTH:
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                          2404 GAACTTTTTAAGCTGCT 2420
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                                                                                                                                                               nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGUGACGUCUGGUCUUU 17
                                                                                                                                                                              17 base pairs
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633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Suite 4700
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Stinchcomb, Dan T.
Escobedo, Jaime
                                                        Conservative
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                                                                                                                                  linear
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                                                                                                                                               single
                                                                      1.0%;
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Y 11, 1996
                                                       ; Score 13.8; D;
; Pred. No. 87;
6; Mismatches
                                                                                                                                                                                                                                                                                      218/064
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Pred. No. 87
                                                                                      DB
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RESULT 71
US-08-584-040-5779
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US-08-584-040-5714
                                                                                                                                     Matches
                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: WORD PETCECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/584,040
FILING DATE: January 11, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION:
                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
                                                                                                                                                                                                                                                                                                                                                       NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCS/DOCKET NUMBER: 21:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/005,974 FILING DATE: October 26, 1995 ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
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                                                                                                                                                                                                                                                                                                           TELEFAX: 1-3510
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY: U.S.A.
ZIP: 90071-2066
                                                                                                                                                                                                                                    TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Los Angeles
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                                                                                                    1813 GTGGCCGTGAAGATGTT 1829
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                                                                  1 GUAGCCGUCAAGAUGUU 17
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633 West Fifth Street
Suite 4700
                                                                                                                                                                                                                                                                                                                                         (213) 955-0440
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Stinchcomb, Dan
                                                                                                                                     Conservative
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                                                                                                                                                     Score 13.8;
Pred. No. 8
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                                                                                                                                       Mismatches
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GENERAL INFORMATION:
APPLICANT: Pavco, Pamela
APPLICANT: McSwiggen, James
APPLICANT: Stinchoomb, Dan '
Applicant: Escobedo, Jaimes
Applicant: Escobedo, MRTHOD

METHOD AND REAGENT FOR THE

Sequence 5779, Application US/08584040 Patent No. 6346398

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RESULT 72
US-08-584-040-5780
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Sequence 5780, Apr
Sequence 5780, Apr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM: IBM P.C. DOS 5.0 SOFTWARE: Word Perfect 5.1 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/584,040 FILING DATE: January 11, 1996 CLASSIFICATION: 514 PRIOR APPLICATION DATA: APPLICATION DATA: APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO:
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TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                  TITLE OF
                                                                                                                                                                                                  APPLICANT:
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                   APPLICANT:
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                                                CORRESPONDENCE ADDRESS:
                                                                  TUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
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TOPOLOGY: 111
                               ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 60/005,974
                                                                                 LE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                    2112 CATGGAGTACTTGGCTT 2128
                                                                                                                                                                                                                                  INFORMATION:
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10; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    I: 17 base pairs
nucleic acid
                                                                                                               T: McSwiggen, James
T: Stinchcomb, Dan T.
T: Escobedo, Jaime
INVENTION: METHOD AND REAGENT FOR THE
INVENTION: TREATMENT OF DISEASES OR
INVENTION: CONDITIONS RELATED TO LEVEL
                                                                                                                                                                                                                                                                                                                                                    CAUGGAGUUCUUGGCAU 17
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               E: Lyon & Lyon
633 West Fifth Street
Suite 4700
                                                                                                                                                                                                                    Pavco,
                                                                                                                                                                                                                                                                    Application US/08584040
                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
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                                                                                               TREATMENT OF DISEASES OR CONDITIONS RELATED TO LEVELS OF VASCULAR ENDOTHELIAL
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                                                                  GROWTH FACTOR
8502
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                                                                                                                                                                                                                                                                                                                                                                                                                     Score 13.8; | Pred. No. 87; | S; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1; Length 17;
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: OCCODER 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/06
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Escobedo, ITITLE OF INVENTION: METITLE OF INVENTION: TOTALE OF INVENTION: COTITLE OF INVENTION: GRAPHICANT OF 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
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APPLICATION NUMBER: US/08/584,040
PILING DATE: January 11, 1996
                                                         SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/
                                                                                                                                                                                                                      ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
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APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
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FILING DATE: J
CLASSIFICATION:
                                                                                                                                                     COMPUTER: IBM CON
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                      CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET: 633 West F.
STREET: Suite 4700
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nes 10; Conserva
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TOPOLOGY: li
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      E: Lyon & Lyon
633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                              U.S.A.
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Stinchcomb, Dan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/08584040
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                                                                                                                                                                                    IBM Compatible
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      January 11, 1996
N: 514
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      58.8%;
                                                                                                                                                                IBM P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GROWTH FACTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CONDITIONS RELATED TO LI
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                                                                US/08/584,040
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RESULT 74
US-08-584-040-7674
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TELEX: 67-3510
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 70 Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Pavco, Pamela
APPLICANT: McSwiggen, James
APPLICANT: Stinchomb, Dan T.
APPLICANT: Stinchomb, Dan T.
APPLICANT: Bscobedo, Jaime
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
TITLE OF INVENTION: GROWTH FACTOR
NUMBER OF SEQUENCES: 8502
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NFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                      NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/005,974
FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                             SOFTWARE: Word Perfect CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE: (213) 489-1600
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                              TELEPHONE: (213)
                                                                                                                                                                                                                        APPLICATION NUMBER: US/08/584,040 FILING DATE: January 11, 1996 CLASSIFICATION: 514
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                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                 COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Los Angeles
STATE: California
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REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
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Similarity 47.1%;
B; Conservative
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                     67-3510
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633 West Fifth Street
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                                                                                                                                                                                                                                                                                              Word Perfect 5.1
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                                                         (213)
                                      955-0440
                                                         489-1600
                                                                                                                                                                                                                                                                                                                  IBM P.C. DOS 5.0
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Pred. No. 8
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US-08-584-040-7684
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                                                Query Match
Best Local Similarity
Matches 9; Conserv
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Best Local Similarity 76.5%;
Matches 13; Conservative
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                                                                                                                                                                                                                                                          CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/584,040
FILING DATE: January 11, 1996
CLASSIFICATION E 14
PRIOR APPLICATION 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/005,974
FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Watburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (11) 489-1600
                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
COTTWANDE: WOY BEFFORT 5.1
                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
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APPLICANT: Escobedo,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STREET:
                                                                                                                                           LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: U.S.A. ZIP: 90071-2066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: Suite 4700
CITY: Los Angeles
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TOPOLOGY: linear
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TELEX: 67-3510
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                                                                                                                                 TOPOLOGY:
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2353 TGGGAGATCTTCACTTT 2369
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633 West Fifth Street
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                                                                                                                                                                                                                                              (213) 955-0440
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                                                  Conservative
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                                                Score 13.8; D
Pred. No. 87;
6; Mismatches
                                                  6;
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Pred. No. 87;
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                                                                                DB 1;
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                                                                              Length 17;
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US-08-584-040-7686
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                                                                                                                                                                                                                                                                      RESULT 77
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                                                                GENERAL INFOR
APPLICANT:
APPLICANT:
                                                                                                                                                                 Sequence 7686, Application US/08584040 Patent No. 6346398
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DO
SOFTWARE: WOR'D PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/58
PILING DATE: January 11, 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: October 26, ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 514
PRIOR APPLICATION DATA:
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TITLE OF INVENTION:
TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: STRANDEDNESS: 81..
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                                                                                                                                                                                                                                                                                                                                                                                                                              2355 GGAGATCTTCACTTTAG 2371
                                                                                                 INFORMATION:
CANT: Pavco, Pamela
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: Los Angeles
E: California
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Similarity 58.8%;
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633 West Fifth Street
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Stinchcomb, Dan T.
Escobedo, Jaime
McSwiggen, James
Stinchcomb, Dan T.
Escobedo, Jaime
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Pred. No. 8
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US-08-584-040-7687
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Best Local Similarity 58.8%;
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                         sequence
                                                                                                                                                                                                                                                                                         Patent No.
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TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OPERATING SYSTEM: IBM P.C. DOS 5.0 DERATING SYSTEM: IBM P.C. DOS 5.0 SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/584,040
FILING DATE: January 11, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                               TITLE OF INVENTION:
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TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
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APPLICANT:
APPLICANT:
APPLICANT:
                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
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LENGTH: 17 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/005,974
FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
                                                                                                     NUMBER OF SEQUENCES:
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                              STREET:
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STATE: California
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10. 6346398
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California
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633 West Fifth
Suite 4700
                                 Suite 4700
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Escobedo, Jaime
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                                                                                                                                                                                      METHOD AND REAGENT FOR THE
                                                                                                                                   TREATMENT OF DISEASES OR CONDITIONS RELATED TO LEVELS OF VASCULAR ENDOTHELIAL
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                                                                                                                     GROWTH FACTOR
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Pred. No. 8
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RESULT 80
US-09-474-432B-385/c
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US-09-370-644B-21
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                                                                                                                                                                                                                                                                   SEQ ID NO 21
LENGTH: 17
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TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 7
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
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                                                                                                                                             Matches
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Best Local Similarity 58.8%;
                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                       PRIOR FILING DATE: 1996-0
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/09/370,644B
CURRENT FILING DATE: 1999-08-06
PRIOR APPLICATION NUMBER: 08/596,257
                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: KOSSMANN et al.

TITLE OF INVENTION: DEBRANCHING ENZYMES AND DNA SEQUENCES CODING THEM,

TITLE OF INVENTION: SUITABLE FOR CHANGING THE DEGREE OF BRANCHING OF

TITLE OF INVENTION: AMYLOPECTIN STARCH IN PLANTS

FILE REFERENCE: 514413-3771

FILE REFERENCE: 514413-3771
                                                                                                                                                                                                                              TYPE: RNA
ORGANISM: Solanum tuberosum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/005,97.
FILING DATE: Coctober 26, 1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
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TOPOLOGY: lir
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OPERATING SYSTEM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: U.S.A.
                                                                                                                                                          Match 1.0%; Local Similarity 70.6%;
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                                                                                                         2271 AGTCAAGTGGATGGCTC 2287
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                                                                        AUUCAAGUGGAUGGCGC 17
                                                                                                                                             Conservative
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                                                                                                                                           3; Mismatches
                                                                                                                                                           Score 13.8;
Pred. No. 8
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Pred. No. 87
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US-09-474-432B-778
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; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-474-432B-385
; ORGANISM: Homo sapiens
US-09-474-432B-778
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 1526
SOFTWARE: PatentIn version
SEQ ID NO 385
                                                                                    NUMBER OF SEQ ID NOS: 1526
SOFTWARE: PatentIn version
SEQ ID NO 778
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                                                                                                                                                                                                       APPLICANT: Karpeisky, Alex
APPLICANT: Adamic, Jasenka
APPLICANT: Sweedler, David
APPLICANT: Sweedler, David
APPLICANT: Zinnen, Shawn
TITLE OF INVENTION: Nucleotide triphosphate and their incorporation into oligonucleot
FILE REFERENCE: MBHB00-831-B (247/276)
CURRENT APPLICATION NUMBER: US/09/474,432B
CURRENT FILING DATE: 1999-12-19
PRIOR APPLICATION NUMBER: US 60/064,866
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: US 60/084,727
PRIOR APPLICATION NUMBER: US 60/084,727
PRIOR APPLICATION NUMBER: US 09/186,675
PRIOR APPLICATION NUMBER: US 09/186,675
PRIOR FILING DATE: 1998-04-29
PRIOR FILING DATE: 1998-11-04
PRIOR FILING DATE: 1998-11-04
PRIOR FILING DATE: 1998-11-04
                                                                                                                                                               PRIOR APPLICATION NUMBER: US 09/301,511 PRIOR FILING DATE: 1999-04-28
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PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: US 60/084,727
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: US 09/186,675
PRIOR FILING DATE: 1998-11-04
PRIOR FILING DATE: 1998-11-04
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TITLE OF INVENTION: Nucleotide triphosphate and their incorporation into oligonucleot
FILE REFERENCE: MBHB00-831-B (247/276)
CURRENT APPLICATION NUMBER: US/09/474,432B
CURRENT FILING DATE: 1999-12-19
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APPLICANT: Beigelman, Leo
APPLICANT: Burgin, Alex
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                                            TYPE: RNA
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Adamic, Jasenka
Sweedler, David
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Burgin, Alex
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Beaudry, Amber
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                                                                                                                     version 3.0
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Pred. No. 8
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                                           US-09-371-772B-1973
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; ORGANISM: Homo sapiens
US-09-371-772B-1972
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                                                                                                                                SEQ ID NO 1973
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Best Local Similarity 58.8%;
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Patent No. 6566127
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Patent No. 6566127
                                                                                                                                                                                                                                                                             APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILLING DATE: 1999-08-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ENERAL INFORMATION:
                                                                                                                                                PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
SOFTWARE: PatentIn version 3.0
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APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
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SOFTWARE: PatentIn version 3.0
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PRIOR PILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Pavco, Pam
                                                         LENGTH: 17
TYPE: RNA
ORGANISM: Homo sapiens
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Pred. No. 87
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Pred. No. 87;
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Query Match

Score 13.8;

DB 1;

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; TYPE: RNA; Homo sapiens; ORGANISM: Homo sapiens US-09-371-7728-2124
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US-09-371-772B-2009
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CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
PRIOR FILING DATE: 1996-01-08
PRIOR FILING DATE: 1936-01-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Patent No. 6566127
GENERAL INFORMATION:
Query Match
Best Local Similarity
                                                                                                                                  SEQ ID NO 2124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 2124, Application US/09371772B
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APPLICANT:
APPLICANT:
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CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
                                                                                                                                                                                                                                                                                          APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of
TITLE OF INVENTION: Levels of Vascular Endothelial Growth F
FILE REFERENCE: MBHBOO, 876-J (237/198)
                                                                                                                                                               PRIOR FILING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
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APPLICANT: Pavco, Pam
                                                                                                                                                  SOFTWARE: PatentIn version 3.0
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ORGANISM: Homo sapiens
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Stinchcomb, Dan
Escobedo, Jaime
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 Score 13.8;
Pred. No. 87;
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Pred. No. 8
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                 DB 1;
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                 Length 17;
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APPLICANT: Pavo, Pam
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
ITILE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
ITILE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT ETLING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
INVABER OF SEQ ID NOS: 14225
SOFTWARE: PatentIn version 3.0
LENGTH: 17
TYCE: UNA
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Query Match 1.0%;
Best Local Similarity 47.1%;
Matches 8; Conservative
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Best Local S
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                                                                                             TYPE: RNA
ORGANISM: Mus sp.
-09-371-772B-2682
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APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1995-01-08
NUMBER OF SEQ ID NOS: 14225
SOFTWARE: PatentIn version 3.0
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TYPE: RNA
ORGANISM: Mus
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10; Conservative
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       Score 13.8; I
Pred. No. 87;
7; Mismatches
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Pred. No. 8
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                                              DB 1; Length 17;
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; LENGTH: 17
; TYPE: RNA
; ORGANISM: Mus sp.
US-09-371-772B-3469
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ITITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (2377/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1995-10-26
PRIOR FILING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
SOFTWARE: Patentin version 3.0
SEQ ID NO 3459
LENGTH: 17
TYPE: RNA
ORGANISM: Mus sp.
US-09-371-772B-3459
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US-09-371-772B-3469
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US-09-371-772B-3459
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Matches 13; Conserv
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                                           Query Match
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  Matches
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APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 08/005,974
PRIOR APPLICATION NUMBER: US 08/584,040
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NUMBER OF SEQ ID NOS: 14225
SOFTWARE: PatentIn version 3.0
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APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
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APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
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Local Similarity les 9; Conserv
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Escobedo, Jaime
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    Conservative
                       1.0%;
52.9%;
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    6; Mismatches
                                           Score 13.8;
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Pred. No. 8
                       Pred. No.
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US-09-371-772B-3470
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                                                                                                                     ; TYPE: RNA
; ORGANISM: Mus sp.
US-09-371-772B-3471
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; ORGANISM: Mus sp.
US-09-371-772B-3470
                               Query Match
Best Local Similarity
Matches 10; Conserv
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Best Local Similarity 58.8
Matches 10; Conservative
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                                                                                                                                                                                                                                                        TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions |
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR PILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1995-01-88
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PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
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APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT APPLICATION DATE: 1999-08-10
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  2356 GAGATCTTCACTTTAGG 2372
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o. 6566127
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Escobedo, Jaime
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McSwiggen, Jim
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                                                          Score 13.8;
Pred. No. 87;
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Pred. No. 8
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; TYPE: RNA
; ORGANISM: Mus sp.
US-09-371-772B-3472
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US-09-371-772B-4816
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                                                                Query Match
Best Local Similarity
Matches 13; Conserv
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SEQ ID NO 3472
LENGTH: 17
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APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions of TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-01-08
PRIOR FILING DATE: 1995-01-08
PRIOR FILING DATE: 1995-01-08
NUMBER OF SEQ ID NOS: 14225
NUMBER OF SEQ ID NOS: 14225
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APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
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CURRENT APPLICATION NUMBER: US/99/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR PELICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR FILING DATE: 1995-01-08
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                                                                                                                                                                               TYPE: RNA
ORGANISM: Homo sapiens
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McSwiggen, Jim
Stinchcomb, Dan
Escobedo, Jaime
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                                                                    1.0%; Score 13.8; 76.5%; Pred. No. 87; tive 2; Mismatches
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Pred. No. 8
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                                                                                                  Query Match
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APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-U (237/198)
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CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
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PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
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CURRENT FILING DATE: 1999-08-10
                                                                                                                                                                                                                             SOFTWARE: PatentIn version 3.0
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SOFTWARE: PatentIn version 3.0
                                                                                                                                                  LENGTH: 17
TYPE: RNA
ORGANISM: Homo sapiens
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TYPE: RNA
ORGANISM: Homo sapiens
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                               2278 TGGATGGCTCCAGAAGC 2294
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Escobedo, Jaime
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                                                                ; Score 13.8; D; Pred. No. 87; 2; Mismatches
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; TYPE: RNA
; ORGANISM: Human immunodeficiency virus
US-09-325-601-1
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CURRENT FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 53
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APPLICANT: Prescott
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                                                                                          APPLICATION NUMBER: 08/14)
FILING DATE: October 22,
APPLICATION NUMBER: 07/953
FILING DATE: September 29,
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                        COMPUTER: IBM compatible
OPERATING SYSTEM: PC-DOS (Version 5
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/143,219
FILING DATE: October 25, 1993
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
REFERENCE/DOCKET NUMBER: 20.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE: Lyon & Lyon
                                                                                                                                                                 PRIOR APPLICATION DATA: described PRIOR APPLICATION NUMBER: 08/141,244
                                                                                                                                                                                                                 PRIOR APPLICATION DATA: PRIOR APPLICATION DATA:
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                                                              NAME: Douglas E. Olson REGISTRATION NUMBER: 2
                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: UZIP: 90017
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les 13; Conservative
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Koromilas,
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                                                                                                                     September 29, 1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TUMOR-CELL ASSAY METHOD AND KIT
                                                                                                                                         07/953,681
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                                                          22,798
                                                                                                                                                                                                 including application described below:
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Pred. No. 87;
2; Mismatches
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Best Local S
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                                                                                                                                           FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION UNMBER: PCT/GB92/00883
FILING DATE: 15-MAY-1992
ATTORNEY/AGENT INFORMATION:
NAME: David W. Clough
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/32238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                    TELEPHONE: 312-474-630 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Johnson, Kevi
APPLICANT: Winter, Grego
APPLICANT: Griffiths, Andrew
APPLICANT: Smith, Andrew
APPLICANT: Waterhouse, I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: DN
HYPOTHETICAL: NO
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: GOIN PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
                                                                                                                            TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     UMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: PCT/GB93/00605
FILING DATE: 24-MAR-1993
                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/08/307,619
FILING DATE: 16-SEP-1994
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Chicago
STATE: Illinois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ITLE OF INVENTION: Methods for producing members of specific TILE OF INVENTION: binding pairs
                   STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INDIVIDUAL ISOLATE: COMPLEMENTARY TO THE RNA PROBE FOR INDIVIDUAL ISOLATE: PR-VII, FIGURE 5
                                                 LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE:
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ropology:
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Il Similarity 88.2%;
15; Conservative
             nucleic acid
DEDNESS: single
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Smith, Andrew JH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Johnson, Kevin S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear
linear
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312-474-6300
33:
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US-08-470-837-21/c
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Matches , 15; Conservative
                                                       Matches
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Best Local
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                                                                                                                                                                                                                                                                                           TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Flopy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MG-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,837
                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
NAME: Sharp, Janice A.
REGISTRATION NUMBER: 34,051
REFERENCE/DOCKET NUMBER: 30630-1US01
                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
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                                                                                                                        NAME/KEY:
LOCATION:
                                                                                                                                                                 NAME/KEY:
LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: 11150 Santa Monica Boulevard, Suite 400 CITY: Los Angeles STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: USA
ZIP: 90025-3395
                                                    Local Similarity
les 15; Conserv
                                                                                                                                                                                                                        TOPOLOGY:
                                                                                                                                                                                                                                     STRANDEDNESS:
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                    1879 GAGATGATGAAGATGAT 1895
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18 GTGATGATGATGAT 2
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                                                                                                                                                                                                                                                   nucleic acid
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                                                                                                                                                                                                                                                                18 base pairs
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                                                       Conservative
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88.2%;
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Pred. No. 98
                                                                  Score 13.8;
Pred. No. 9
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                                                        Mismatches
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                                                       Indels
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RESULT 100 US-08-541-950B-13

Sequence 13, Application US/08541950B Patent No. 5821046

INFORMATION:

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
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                                                                                                                                                                                                                                                                                                                     atent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (617) 345-911 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM: PC_DO
SOFTWARE: WordPerfect 6
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/
FILING DATE: 10/10/95
                                                                                                                                                                 TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 10/10/9
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                 COMPUTER READABLE FORM
                                                                                                                                    CORRESPONDENCE ADDRESS:
                                                                                                                                               TITLE OF INVENTION:
                                                                                                                                                                                                APPLICANT: Johnso APPLICANT: Smith,
                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: 37
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 03/19/93
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM: MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
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STREET: MA
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STATE: MA
02111
                                                                                        STREET:
                                                                                      ADDRESSEE: David W. Clough
STREET: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Williams, Ph.D., Kathl
REGISTRATION NUMBER: 34,380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PPLICANT: Karn J, Gait MJ, Heaphy S, Dingwall C
MEDIUM TYPE: Floppy disk
                                            COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                               1490 AGCCAGACTTCAGCAGC 1506
                                                                                                                                                                                                                                                                                                                                     79,
                                                                                                                                                                                                                                                                                                     INFORMATION:
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13; Conserv
                            60606-6402
                                                                          Chicago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nucleic acid
                                                                                                                                                                                  INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                  AGCCAGAUUUGAGCAGC 17
                                                            Illinois
                                                                                                                                                                                                                                                                                                                                     Application US/08350260A
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One Financial Center, 45th Floor
                                               USA
                                                                                                                                                                    Johnson, Kevin Stuart
Johnson, Andrew John Hammond
Smith, Andrew John Hammond
Smith, Andrew John Producing members of specific
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                                                                                                                                                                                                                              Nissim, Ahuva
                                                                                                                                                                                                                                                           Griffiths, Andrew David Williams, Samuel Cameron
                                                                                                                                                                                                                                           Waterhouse,
                                                                                                                                                                                                                                                                                         Winter, Gregory Paul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                 binding pairs
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76.5%; Pred. No. 98;
tive 2; Mismatches
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                                                                                                                                                                                                                                           Peter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kathleen M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3777/57347 (MRC-011AX)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1; Length 18;
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                                                   ; OTHER INFORMATION: Antisense Oligonucleotide US-09-205-921-17
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US-09-205-921-17/c
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                                                                                                                                GENERAL INFORMATION:
APPLICANT: Brett P. Monia
APPLICANT: ex M. Cowsert
TITLE OF INVENTION: ANTISENSE MODULATION OF EGR-1 EXPRESSION
PILE REFERENCE: RTS-0028
CURRENT FILING DATE: 1998-12-04
NUMBER OF SEQ ID NOS: 47
SEQ ID NO 17
LENGTH: 18
LENGTH: 18
                                                                                                                                                                                                                                                                                                     Sequence 17, Application US/09205921A Patent No. 6008048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
                                                                                  ORGANISM: Artificial Sequence FEATURE:
                                                                                                                    TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9110549.4
FILING DATE: 15-MAY-1991
PRIOR APPLICATION DATA:
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FILING DATE: 15-MAY-
PRIOR APPLICATION DATA:
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PRIOR APPLICATION DATA:
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SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
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APPLICATION NUMBER: PCT/GB91/01134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.0%;
Local Similarity 88.2%;
les 15; Conservative
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TOPOLOGY: 1i:
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REGISTRATION NUMBER: 36,107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US 08/307,619 FILING DATE: 16-SEP-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
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SYSTEM: PC-DOS/MS-DOS
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15-MAY-1992
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24-MAR-1992
1.0%;
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Pred. No. 9
Score 13.8;
Pred. No. 98
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                   DB 1;
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               Length 18;
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Best Local Similarity

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Pacent No. 610000

GENERAL INFORMATION:
APPLICANT: Brett P. Monia
APPLICANT: Lex M. Cowsert
TITLE OF INVENTION: ANTISENSE MODULATION OF PI3
FILE REFERENCE: RTS-0062
CURRENT APPLICATION NUMBER: US/09/344,521
CURRENT FILING DATE: 1999-06-25
NUMBER OF SEQ ID NOS: 47
                                                                                                                                                                                                   RESULT 104
US-09-344-521-25/c
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US-08-722-240-4
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (732)530-6671
TELEFAX: (732)530-6584
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
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SEQ ID NO 25
LENGTH: 18
                                                                                                                                                                     Sequence 25, Application US/09344521 Patent No. 6100090
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk 3 1/2", 1.44 Mbyte COMPUTER: HP Vectra XU OPERATING SYSTEM: Windows NT 4 Workstation SOFTWARE: Microsoft Word 97 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Voorberg, Johannes Ju
APPLICANT: van Mourik, Jan Aart
APPLICANT: Mertens, Koenraad
TITLE OF INVENTION: Method and
                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: DI
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ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: Method and means for detecting and treating TITLE OF INVENTION: disorders in the blood coagulation cascade
                                                                                                                                                                                                                                                                                                                                                        Local
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                                                                                                                                                                                                                                                                       TEGTAAAAGACTTGAAT 18
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328 Newman Springs Road, P.O. Box 8489
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0; Mismatches
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                                                                                                  PI3K P85 EXPRESSION
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; OTHER INFORMATION: AntiBense Oligonucleotide US-09-344-521-25
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US-09-205-143-41/c
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Best Local Similarity 88.2%;
Matches 15; Conservative
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LENGTH: 18
TYPE: DNA
ORGANISM: Artificial Sequence
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APPLICANT: Lex M. Cowsert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 41, Application US/09205143 Patent No. 6107091
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CURRENT FILING DATE: 1998-12-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: ANTISENSE MODULATION OF G-ALPHA-16 EXPRESSION FILE REFERENCE: RTS-0032
                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 87
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              ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kath.
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 37'
                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center, 45th Floor
                                                                                                                    PRIOR APPLICATION DATA:
                                                                                                                                                                       CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                          COMPUTER READABLE FORM: MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Karn J, Gait MJ, Heaphy S, Dingwall C
TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
NUMBER OF SEQUENCES: 26
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                              CILL.
STATE: NL.
02111
                                                                                                                                                                                     COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: WordPerfect 6.1
                                                                                   APPLICATION NUMBER: FILING DATE:
                                                                                                                                    APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                 CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1354 CCAGCGCCTGGAAGAGA 1370
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                                                 Kathleen M.
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              3777/57347
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Pred. No. 9
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Pred. No. 98
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                (MRC-011AX)
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                                                                                                                                                                                                                                            Mb storage
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INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
                                                                                             APPLICATION NUMBER: PCT/GB92/00883
FILING DATE: 15-MAY-1992
ATTORNEY/AGENT INFORMATION:
NAME: David W. Clough
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/32238
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                              INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: USA
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                 APPLICATION NUMBER: G
FILING DATE: 24-MAR-1
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO) CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/050,783
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                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: FILING DATE: 16-SE
                 STRANDEDNESS:
                               TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: FILING DATE: 24-MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Chicago
STATE: Illinois
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                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
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 TOPOLOGY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Johnson, Kevin S
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linear
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fower, 233
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                                                                                                                                   28111/32238
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South Wacker Drive
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Best Local Similarity
Matches 15; Conserve
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US-09-104-337A-79
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; NAME/KEY: CDS
; LOCATION: (1)...(18)
US-08-868-452-21
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APPLICANT: Marcel E. Nimni
APPLICANT: Frederick L. Hall
APPLICANT: Lingtao Wu
                                                                                                                                                                                                                                                                                                                                                                                       Sequence 79, Apprint No. 6492160
                                                                                                                                                                                                                                                                                                                                                                               Patent No. 6492160
GENERAL INFORMATION:
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LENGTH: 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/08/868,452C CURRENT FILING DATE: 1997-06-03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: BONE MORPHOGENETIC PROTEINS AND THEIR TITLE OF INVENTION: USE IN BONE GROWTH
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APPLICANT: Edwin Shors
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ORGANISM: Human
         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Audrey L. Bartnicki
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                    Johnson, Kevin Stuart
Smith, Andrew John Hammond
TITLE OF INVENTION: Methods for producing members of specific binding pairs
                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Winter,
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5. 6352972
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                                                                                                                        CITY: Chicago
STATE: Illinois
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                                                                                                           COUNTRY: USA
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                                                                                             60606-6402
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hs, Andrew David
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s Tower, 233 Sout!
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Pred. No. 98
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Pred. No. 9
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APPLICATION NUMBER: US/09/104,337A

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; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Designated
; OTHER INFORMATION: a forward oligonucleotide encoding (His)6
US-09-280-030-8
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Best Local Similarity
                                            Query Match
                                                                                                                                                                                                                               SEQ ID NO 8
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      Matches
                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: DNAS ENCODING NEW FUSION PROTEINS AND TITLE OF INVENTION: PREPARING USEFUL POLYPEPTIDES THROUGH TITLE OF INVENTION: DNAS FILE REFERENCE: 382.1026
CURRENT APPLICATION NUMBER: US/09/280,030A
CURRENT FILING DATE: 1999-03-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SENERAL INFORMATION:
                                                                                                                                                                                                                                                                      CURRENT FILING DATE: 1999-03-26
EARLIER APPLICATION NUMBER: JP10-87339/1998
EARLIER FILING DATE: 1998-03-31
NUMBER OF SEQ ID NOS: 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Sato, Seiji
APPLICANT: Higashikuni, Na
APPLICANT: Kudo, Toshiyuki
APPLICANT: Kondo, Masaaki
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                                                                                                                                                             LENGTH: 18
TYPE: DNA
ORGANISM: Artificial Sequence
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    Local Similarity 88.2%; es 15; Conservative
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TYPE: nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRANDEDNESS: single
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APPLICATION NUMBER: GB 9206318.9
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Pred. No. 9
                       Score 13.8; DB 1; Pred. No. 98;
Mismatches
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; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human immunodeficiency virus
US-09-325-601-3
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US-09-280-030-9
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                                                              Query Match
Best Local Similarity
Matches 13; Conser
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                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/325,601 CURRENT FILING DATE: 1999-06-03
                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Methods and Kits for Discovery of RNA-Binding Compounds FILE REFERENCE: 3950/81235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Sato, Seiji
APPLICANT: Higashikuni, Nac
APPLICANT: Kudo, Toshiyuki
APPLICANT: Kondo, Masaaki
                                                                                                                                                                                                                                                                                                                                  APPLICANT: Karn
APPLICANT: Prescott
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EARLIER APPLICATION NUMBER: JP10-87339/1998
EARLIER FILING DATE: 1998-03-31
NUMBER OF SEQ ID NOS: 66
                                                                                                                                                                                                                          SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 53
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Ver.
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                             1490 AGCCAGACTTCAGCAGC
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                                                                 Conservative
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                                                                                Score 13.8;
Pred. No. 9
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Pred. No. 98
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                                                                 Mismatches
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                                                                                                 Length 18;
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RESULT 113 US-09-081-646-233/c ; Sequence 233, Application US/09081646

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; SEQ ID NO 233
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-081-646-233
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APPLICANT: Zhang, Lin
APPLICANT: Zhou, Wei
APPLICANT: Zhou, Wei
TITLE OF INVENTION: Gene Expression Profiles in
TITLE OF INVENTION: Cancer Cells
FILE REFERENCE: 01107.74664
CURRENT APPLICATION NUMBER: US/09/081,646
CURRENT FILING DATE: 1998-05-20
EARLIER APPLICATION NUMBER: 60/047,352
EARLIER FILING DATE: 1997-05-21
NUMBER OF SEQ ID NOS: 871
NUMBER OF SEQ ID NOS: 871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 433, Application US/08390850
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Kinzler, Kenneth
APPLICANT: Vogelstein, Bert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: FastSEQ for Windows Version 3.0
                                                          FILING DATE: No. 5612215ember 1
APPLICATION NUMBER: 07/989,848
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                               PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                        OPERATING SYSTEM: IBM P.C. DOS SOFTWARE: FASTSEQ Version 1.5 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette,
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32
REFERENCE/DOCKET NUMBER:
                                                                                                                                     FILING DATE: December 13, 1994
APPLICATION NUMBER: 08/152,487
                                                                                                                                                                                                               APPLICATION NUMBER: US/08/390,850 FILING DATE: February 17, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Match 1.0%;
Local Similarity 93.3%;
                                                                                                                                                                               APPLICATION NUMBER: 08/354,920
                                                                                                                                                                                                                                                                                              OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1573 rccaccrccrccare 1587
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633 West Fifth Street
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Gustofson, John
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Draper,
                                                                                                                                                                                                                                                                                                                  IBM Compatible
                                                                                                                    No. 5612215ember 12,
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METHOD AND REAGENT FOR TREATMENT
OF ARTHRITIC CONDITIONS
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                    32,327
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    211/084
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; ANTI-SENSE: :
US-08-398-008A-5
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US-08-398-008A-5/c
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Best Local S
Matches 12
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                                                          Matches
                                                                       Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                            CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/126,501
APPLICATION NUMBER: 08/126,501
FILING DATE: 24-SEP-193
ATTORNEY/AGENT INFORMATION:
NAME: Adler, Dr. Benjanin Aaron
REGISTRATION NUMBER: 35,423
REFERENCE/DOCKET NUMBER: 05705CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (713) 777-2321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: MACINTOSH IICI
OPERATING SYSTEM: Macintosh
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/398,
FILING DATE: March 2, 1995
                                                                                                                                            TOPULOU: DN MOLECULE TYPE: DN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION:
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                                                                                                                                                                     TYPE: ...
STRANDEDNESS: uou...
TYPE: 11near
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ZIP: 77071
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nes 12; Conserv
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STRANDEDNESS: single
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                                                                                                                                                                                                                       ENGTH:
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16 GTGATTACAGCTTCC
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                                                                                                                                                                                                                         17 base pairs
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                                                          Conservative
                                                                                                                                                                                                                                                                                  (713) 777-6908
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                                                                       Score 13.4; DB 1;
Pred. No. 1e+02;
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Pred. No. 1e
                                                          Mismatches
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                                                                                     Length 17
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                   Sequence 5, Application US/08893333A Patent No. 5981705
                                                                                                                                                                                                             Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 514
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: 08/390,850
APPLICATION NUMBER: 08/354,920
APPLICATION NUMBER: 08/354,920
FILING DATE: December 13, 1994
                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                         REGISTRATION NUMBER: 32,327
REFERENCE/LOCKET NUMBER: 211/084
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: December 7,
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: McSwiggen, James
APPLICANT: Gustofson, John
APPLICANT: Stinchcomb, Dan T.
TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT
TITLE OF INVENTION: OF ARTHRITIC CONDITIONS
                                                                                                                                                                                                             Local Similarity
les 12; Conserv
                                                                                                                                                                                                                                                                                                            TOPOLOGY: 11
                                                                                                                                                                                                                                                                                                                                          TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 08/152,487
FILING DATE: NO. 5731295ember 12,
APPLICATION NUMBER: 07/989,848
FILING DATE: December 7, 1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/01
FILING DATE: 05-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZIP: 90071
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                                                                                                                                                                       1586 TGAACTCCAACACCC 1600
INFORMATION:
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California
                                                                                                                                 UGGACUCCAACACCC 17
                                                                                                                                                                                                               Conservative
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                                                                                                                                                                                                                                                                                                        linear
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                                                                                                                     COMPUTER: IEM PC COMPATIBLE
COMPUTER: IEM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/776,900C
FILING DATE: 30-APR-1997
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION UMBER: PCT/FR95/01035
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/FR95/01035
PILING DATE: 01-AUG-1995
PRIOR APPLICATION NUMBER: FR/94/09567
APPLICATION NUMBER: FR/94/09567
APPLICATION NUMBER: TR/94/09567
APPLICATION NUMBER: 19,683
REFERENCE/DOCKET NUMBER: 146.1265
TELECOMMUNICATION INPORMATION:
TELEPHONE: (212) 661-8000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 17
SEQ ID NO 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/08/893,333A CURRENT FILING DATE: 1997-07-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: DNA Encoding Natural Killer Lytic Associated Protein FILE REFERENCE: D5705CIP/D
                                                          TELEFAX: (212) 661-800
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: LALANNE, Jea
APPLICANT: SU, Michael
TITLE OF INVENTION: DNA
TITLE OF INVENTION: PNO
TITLE OF INVENTION: INT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: primer bind
OTHER INFORMATION: Oligo #194
OTHER INFORMATION: Used to sequence Natural Killer Lytic Associated Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 17
TYPE: DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDIUM TYPE: FLOPPY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 10016
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1375 GAGATTACAGCTTCC 1389
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16 GTGATTACAGCTTCC 2
                      nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   600 THIRD AVENUE
                                                                                                            (212) 661-8002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FLOPPY DISK
single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA SEQUENCES CODING FOR THE HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1.0%; Score 13.4; DB 1; Length 17; 93.3%; Pred. No. 1e+02;
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OLECULE TYPE:

TOPOLOGY:

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RESULT 120
US-08-584-040-4355
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Matches
                                                                                              Patent No.
                                                                                                Sequence 4355, Application US/08584040 Patent No. 6346398
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                              GENERAL INFORMATION: APPLICANT: Pavco,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 776,90 FILING DATE: JANUARY 31, 1 INFORMATION FOR SEQ ID NO: 10:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION
                APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (OEB)
SOFTWARE: + Corrections under WORDPERFECT 5.1 for SEQ ID NO
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: ROUSSEL UTITLE OF INVENTION: NUMBER OF SEQUENCES:
APPLICANT: McSwiggen, James
APPLICANT: Stinchcomb, Dan T.
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear | MOLECULE TYPE: Other nucleic acid | DESCRIPTION: /desc = "OLIGONUCLEOTIDE"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: 1
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                         Local Similarity
                                                                                                                                                                                                                                                                                                                                 LOCATION: 1..17
OTHER INFORMATION: /note= "SEQ ID NO 1 FROM 695 TO 711"
                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: misc_feature LOCATION: 1..17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: ROUSSEL UCLAF
STREET: 102, Route de No. 618038689
CITY: ROMAINVILLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
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les 14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ENGTH:
                                                                                                                                                                                                                          2465 AACTGTACATGATGA 2479
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IVENTION: DNA SEQUENCES CODING FOR THE HUMAN
SEQUENCES: 42
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                                                              Pavco, Pamela
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linear
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UMBER: 776,900
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93.3%;
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Pred. No. 1e+02;
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Pred. No. le
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le+02;
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Best Local
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TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                         APPLICANT: McSwiggen
APPLICANT: Scinchcom
APPLICANT: Scinchcom
APPLICANT: Bscobedo,
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
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TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
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PRIOR APPLICATION NUMBER: (
                                                                               CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                      NERAL INFORMATION:
APPLICANT: Pavco, Pamela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
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CORRESPONDENCE ADDRESS:
                                                                                              NUMBER OF SEQUENCES:
                             STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: Lyon & Lyon STREET: 633 West Fifth Street STREET: Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM CONTROPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDIUM TYPE: 3.5" Diskette, 1.44 Mb MEDIUM TYPE: storage
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CITY: Los Angeles
                                                              ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                  2404 GAACTTTTTAAGCTG 2418
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Los Angeles
: California
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                               Suite 4700
                                               633 West Fifth
                                                                                                                                                                                                       McSwiggen, James
Stinchcomb, Dan
                                                                                                                                                                                          Escobedo,
                                                                                                                                                                                                                                                                                      Application US/08584040
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                January 11, 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             single
                                                                                                                                                                                                                                                                                                                                                                                                                                              1.0%;
                                                                                                                                            METHOD AND REAGENT FOR THE TREATMENT OF DISEASES OR CONDITIONS RELATED TO LEVELS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TREATMENT OF DISEASES OR CONDITIONS RELATED TO LEVELS OF VASCULAR ENDOTHELIAL
                                                                                                            GROWTH FACTOR
                                                                                                                             OF VASCULAR ENDOTHELIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IBM P.C. DOS 5.0
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                                                                                                                                                                                                         Dan T.
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Pred. No. 1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
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COMPUTER READABLE FORM:

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US-09-474-432B-649
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                                                                                                                                   PRIOR APPLICATION NUMBER: US 60/064,866
PRIOR FILLING DATE: 1997-11-05
PRIOR PELLING DATE: 1997-11-05
PRIOR PELLING DATE: 1998-04-29
PRIOR FILLING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: US 09/186,675
PRIOR FILLING DATE: 1998-11-04
PRIOR PELLING DATE: 1999-04-28
PRIOR FILLING DATE: 1999-04-28
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                                                                             SEQ ID NO 649
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/005,974
FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                              APPLICANT: Sweedler, David
APPLICANT: Zinnen, Shawn
TITLE OF INVENTION: Nucleotide triphosphate and their incorporation into oligonucleot
FILE REFERENCE: MBHB00-831-B (247/276)
CURRENT APPLICATION NUMBER: US/09/474,432B
CURRENT FILING DATE: 1999-12-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ENERAL INFORMATION:
                                                                                                                  NUMBER OF SEQ ID NOS: 1526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Beigelman, Leo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/
FILING DATE: January 11
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                               SOFTWARE: PatentIn version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
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                TYPE: RNA
ORGANISM: Homo sapiens
                                                            ENGTH: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: nucleic acid STRANDEDNESS: sing TOPOLOGY: linear
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OPERATING SYSTEM:
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Karpeisky, Alex
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Burgin, Alex
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      January 11, 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 13.4; DB 1; Length 17; Pred. No. 1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
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Query Match

Score 13.4;

DB 1;

Length 17;

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                                                                                                                                                                                                 TITLE OF INVENTION: Method and Reagent for the Treatme:
TITLE OF INVENTION: Levels of Vascular Endothelial Gr:
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
PRIOR FILING DATE: 1996-01-08
PRIOR FILING DATE: 1996-01-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 124
US-09-371-772B-2123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; ORGANISM: Homo sapiens US-09-371-7728-2122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 123
US-09-371-772B-2122
Query Match
Best Local Similarity
                                                                                                                                                       SEQ ID NO 2123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 2123, Application US/09371772B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 2122
LENGTH: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Patent No. 65661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Patent No. 6566127
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Pavcó, Pam
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1995-01-08
PRIOR FILING DATE: 1995-01-08
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1995-01-08
                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
                                                                                                                                                                              SOFTWARE: PatentIn version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: PatentIn version 3.0
                                                                                  LENGTH: 17
TYPE: RNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
les 9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                             Escobedo, Jaime
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Application US/093717728
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  1.0%;
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Pred. No. 1e+0
5; Mismatches
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  Score 13.4;
Pred. No. 1e
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    4; DB 1;
le+02;
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1e+02;
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Matches

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Indels

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RESULT 126
$185440-12
$PATENI NO. 5185440
; APPLICANT: DAVIS, NANCY L.;WILLIS, LORETTA V.;JOHNSTON,
;ROBERT E.;SMITH, JONATHAN F.
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                                                                                                                                                                                                                        Query Match
Best Local Similarity
                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (212) 751-68 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                           MOLECULE TYPE: other nucleic acid DESCRIPTION: /desc = "synthetic DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: SERUNIAN, LESLIE
REGISTRATION NUMBER: 35,353
REFERENCE/DOCKET NUMBER: 14:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 311130/94
FILING DATE: 21-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: SERUNIAN, LESLIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/08/765,34
FILING DATE: 23-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 145146/94
FILING DATE: 27-JUN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Release #1.0, Version SOFTWARE: #1.30 (EPO) CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: UCHIDA, K.,
APPLICANT: UCHIDA, T.,
APPLICANT: TANAKA, Y.,
APPLICANT: MATSUDA, Y.,
APPLICANT: KONDO, S.
TITLE OF INVENTION: AN ANTISENSE NUCLEIC ACID
TITLE OF INVENTION: COMPOUND
                                                                                                                                                                                                                                                                                                                                                                                                                       ZLECUPHONE: 1212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                             TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS:
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                                                                                                                                                                        1934 GCACACAGGATGG 1946
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                                                                                                                                                                                                                                                                                                                                                           nucleic acid
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                                                                                                                                                                                                                                                                                                                             linear
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                                                                                                                                                                                                                                                                                                                                                                                                                             (212) 758-4800
12) 751-6849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Floppy disk
                                                                                                                                                                                                                                                                                                                                           single
                                                                                                                                                                                                                        0.9%; Score 13; DB 1; Length 14; 100.0%; Pred. No. 80;
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                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                        0,
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                 Query Match
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RESULT 127
US-08-390-850-566/c
US-08-390-850-566
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CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO:12:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 566,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 13; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Patent No. 56122
                                                                                                                                                                                                    APPLICATION NUMBER: 08/354,920
FILING DATE: December 13, 1994
APPLICATION NUMBER: 08/152,487
FILING DATE: No. 5612215ember 12, 1993
APPLICATION NUMBER: 07/989,848
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 32,327
                                                                                             INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/390,850
FILING DATE: February 17, 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/354,920
                                                                                                                                                                       TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/
FILING DATE: 20-JUN-1989
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM Compatible OPERATING SYSTEM: IBM P.C. DO: SOFTWARE: FastSEQ Version 1.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
                     STRANDEDNESS:
TOPOLOGY: lin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ZIP: 90071
                                                                         LENGTH:
                                                                                                                                                   TELEFAX:
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                                                      nucleic acid
                                                                                                                                  67-3510
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                                                                         17 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Application US/08390850
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Stinchcomb, Dan T
                                                                                                                                                     (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              McSwiggen, James
Gustofson, John
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         U.S.A.
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                     linear
                                    single
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100.0%; Pred. No.
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80;
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0.9%;

Score 13;

DB 1;

Length 17;

Best Local Similarity

100.0%;

Pred. No. 1.2e+02;

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RESULT 129
US-08-435-634-566/c
; Sequence 566, Application US/08435634
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US-08-390-850-567/c
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                                                                                                                                                                                                                                       US-08-390-850-567
                                                                                                                                                             Query Match
Best Local Similarity
Matches 13; Conserv
                                                                                                                                                                                                                                                                                         IELEX: 67.3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base ~~'
Type.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: FASTSEQ VERSION 1.5
CURRENT APPLICATION NUMBER: US/08/390,850
APPLICATION NUMBER: US/08/390,850
FILING DATE: February 17, 1995
PRIOR APPLICATION NUMBER: 08/354,920
APPLICATION NUMBER: 08/354,920
FILING DATE: December 13, 1994
APPLICATION NUMBER: 08/152,487
FILING DATE: No. 5612215ember 12, 1:
APPLICATION NUMBER: 07/989,848
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Stinchcomb, Dan T.
TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT
TITLE OF INVENTION: OF ARTHRITIC CONDITIONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE · ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                 LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM Com
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Warburg, Richard REGISTRATION NUMBER: 3
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                                                                                                                           2416 CTGCTGAAGGAAG 2428
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o. 5612215
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Gustofson, John
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                                                                                                                                                               Conservative
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                                                                                                                                                                                                                                                       linear
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SYSTEM: IBM P.C. DOS 5.0
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                                                                                                                                                                             0.9%; Score 13; DB 1;
100.0%; Pred. No. 1.2e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                             32,327
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                                                                                                                                                                                              Length 17;
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                                                                                                                      Sequence 567, Application US/08435634 Patent No. 5731295
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                                                                                                         GENERAL INFORMATION:
                                                                    APPLICANT:
                                                       APPLICANT:
OF INVENTION: METHOD AND REAGENT FOR TREATMENT
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RESULT 130
US-08-435-634-567/c
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APPLICATION NUMBER: 08/390,850
FILING DATE: February 17, 1995
APPLICATION NUMBER: 08/354,920
FILING DATE: December 13, 1994
APPLICATION NUMBER: 08/152,487
FILING DATE: No. 5731295ember 12, 1
                                                                                                                                                                                                                                                                                                     TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
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                                                                                                                                                                                             TOPOLOGY:
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APPLICANT:
APPLICANT:
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                     REFERENCE/DOCKET NUMBER: 21
TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM: IBM P.C. DOS 5.0 SOFTWARE: FastSEQ Version 1.5 CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/435,634 FILING DATE: 05-MAY-1995 CLASSIFICATION: 514
                                                                                                                                                 Local Similarity
                                                                                                                                                                                                                                                                                                                     TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER:
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STATE: California
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                                                                                                 2416 CTGCTGAAGGAAG 2428
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Gustofson, John
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                                                                                                                                                 0.9%; Score 13; DB 1; L
100.0%; Pred. No. 1.2e+02;
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                                                                                                                                  Mismatches
                                                                                                                                                               Length 17;
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                                                                                                                                Gaps
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McSwiggen, James Gustofson, John

Pavco, Pamela

Draper, Kenneth G.

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RESULT 131
US-08-479-614-18/c
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Best Local Similarity 100.0%; P
Matches 13; Conservative 0;
                                                                                                                                                                                                                                                      Patent No. 5861294
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                       Sequence 18, Application US/08479614 Patent No. 5861294
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/390,850

PILING DATE: February 17, 1995
APPLICATION NUMBER: 08/354,920

PILING DATE: December 13, 1994
APPLICATION NUMBER: 08/152,487

PILING DATE: No. 5731295ember 12, 19
APPLICATION NUMBER: 07/989,848

APPLICATION NUMBER: 07/989,848
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SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch
COMPUTER: Macintosh
                                                                                                                                                          NUMBER OF SEQUENCES: 3
                                                                                                                                                                                                APPLICANT: Cowart, Marlon Daniel, Halbert, Donald N., APPLICANT: Kerwin, Jr., James F., McNally, Teresa TITLE OF INVENTION: Adenosine Kinase Polypeptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
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CURRENT APPLICATION DATA:
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
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CITY: Los Angeles
STATE: California
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: FILING DATE: 05-MAY
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                                                                                                          CITY: Abbott Park
                                                                                                                           STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: December
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                                                                        COUNTRY:
                                                                                                                                             ADDRESSEE:
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633 West Fifth Street
                                                                                                                         E: Abbott Laboratories
D-377 AP6D, 100 Abbott Park Road
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SYSTEM: IBM P.C. DOS 5.0
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100.0%; Pred. No. 1.2e+C
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                                                       ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/679,645
FILING DATE: July 12, 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Patent No. 635093
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Thomas D. Brainard REGISTRATION NUMBER: 32,459 REFERENCE/DOCKET NUMBER: 57.TELECOMMUNICATION INFORMATION: TELEPHONE: (708) 937-4884
            CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/001,135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 536
PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
                                                                                                                                                                                                                 COUNTRY: U.S.A. ZIP: 90071-2066
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                                                                                                                                                                                                                                                  California
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Merlo, Donald J.
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Young, Scott A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Edington, Brent E.
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                                                                                                                                                                                                                                                                                                                  Lyon & Lyon
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July 13, 1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patricia Ann Owens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Thomas A.
                                                                                                                                                                                                                                                                                                                                                                  COMPOSITION AND METHODS FOR MODULATION OF GENE EXPRESSION IN PLANTS
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Pred. No. 1.2e+0;
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RESULT 134
US-09-371-772B-5850/c
; Sequence 5850, Application US/09371772B
; Patent No. 6566127
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; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-5819
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US-09-371-7728-5819
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APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Becobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions I
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00, 976-J (237/198)
FURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR PRIOR DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR PILING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
SOFTWARE: PatentIn version 3.0
SEQ ID NO 5819
                                      GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 57-3510
INFORMATION FOR SEQ ID NO: 748:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 5819, Application US/09371772B Patent No. 6566127
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRANDEDNESS: si
TOPOLOGY: linear
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REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 219/247
                                                                                                                                                                                                                                                                                                                  Match 0.9%;
Local Similarity 68.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Match 0.9%;
Local Similarity 76.9%;
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McSwiggen, Jim
Stinchcomb, Dan
Escobedo, Jaime
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Pred. No. 1.1e+02;
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Pred. No. 1.2e+02;
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; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-5850
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SEQ ID NO 7080
LENGTH: 16
TYPE: RNA
ORGANISM: Homo sapiens
                                                                                                           Sequence 23, Application US/08179738
Patent No. 5578462
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local &
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GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor FILE REFERENCE: MSHB00, 876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1996-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
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CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR PRIOR DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR FILING DATE: 1995-10-80/584,040
RIOR FILING DATE: 1995-01-08
NUMBER OF SEQ ID NOS: 14225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Pavco, Pam
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APPLICANT: Seizinger, Bernd R.
APPLICANT: Kley, Nikolai A.
APPLICANT: Bianchi, Albert B.
TITLE OF INVENTION: No. 5578462el NF2 Isoforms
NUMBER OF SEQUENCES: 26
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10; Conserv
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McSwiggen, Jim
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Escobedo, Jaime
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Pred. No. 1.1e
0; Mismatches
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1.1e+02;
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CORRESPONDENCE ADDRESS:

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US-08-390-850-694
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/179,738
FILING DATE: 10-JAN-1994
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Robins, Roberta L.
REGISTRATION NUMBER: 33,208
REFERENCE/DOCKET NUMBER: 5998-0017
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 617-8999
TELEPHONE: (415) 617-8999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 694, Application US/08390850
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO:
APPLICATION NUMBER: US/08/390,850
FILING DATE: February 17, 1995
PRIOR APPLICATION UNMBER: 08/354,920
APPLICATION UNMBER: 08/354,920
FILING DATE: December 13, 1994
                                                                                                  COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS
SOPTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: McSwiggen, James
APPLICANT: Gustofson, John
APPLICANT: Stinchcomb, Dan T.
TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT
TITLE OF INVENTION: OF ARTHRITIC CONDITIONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: cDNA
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LENGTH: 17 base pairs
                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                 CITY: Los Angeles
STATE: California
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TOPOLOGY: lir
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                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                          STREET: Suite 4700
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633 West Fifth Street
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) 327-3231
NO: 23:
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US-08-390-850-695
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                           APPLICATION NUMBER: US/08/390,850
FILING DATE: Pebruary 17, 1995
PRIOR APPLICATION DATA:
APPLICATION UNMBER: 08/354,920
FILING DATE: December 13, 1994
APPLICATION NUMBER: 08/152,487
FILING DATE: No: 5612215ember 12, 1:
APPLICATION NUMBER: 07/989,848
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: Draper, Kenne APPLICANT: Pavco, Pamela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
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                                                                                                                                                                                                                                                                                            COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 21:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Stinchcomb, Dan T.
TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT
TITLE OF INVENTION: OF ARTHRITIC CONDITIONS.
NUMBER OF SEQUENCES: 1151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: 633 West STREET: Suite 470 CITY: Los Angeles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.9%;
Local Similarity 75.0%;
es 12; Conservation
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REGISTRATION NUMBER: 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                      90071
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Gustofson, John
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SS: single
linear
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NMBER: 07/989,848
                                                                                                                                                                                                                                                                                                                                        IBM P.C. DOS 5.0
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US-08-373-124A-416/c
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Best Local Similarity
Marches 12; Conserve
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Patent No. 5646...

PARENAL INFORMATION:
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                                                                   TELEFAX: (213) 955-044
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/08/373,124A
FILING DATE: January 13, 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/245,466
FILING DATE: May 18, 1994
APPLICATION NUMBER: 08/192,943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Draper, Kenneth
APPLICANT: McSwiggen, James
APPLICANT: Jarvis, Thale
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
TITLE OF INVENTION: CANCER USING RIBOZYMES
                                                                                                                                                                                                                          APPLICATION NUMBER: 07/936,422
FILING DATE: August 26, 1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                          TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                                                                                                         NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 20
                                                                                                      TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                 FILING DATE: February 7, 1994
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7, 1992
APPLICATION NUMBER: 07/936,422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM COM
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZIP:
           STRANDEDNESS:
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STATE: California
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                                                  ENGTH:
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                               nucleic acid
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                                                  17 base pairs
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633 West Fifth Street
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linear
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                                                                                                                                                                               209/035
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US-08-373-124A-534
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                                                       Query Match
Best Local
                                      Matches
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Matches 14; Conserv
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                                                                                                                                                                                                                                                                                                            FILING DATE: January 13, 195
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/245,466
FILING DATE: May 18, 1994
APPLICATION NUMBER: 08/192,943
FILING DATE: February 7, 1994
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7, 1992
APPLICATION NUMBER: 07/936,422
FILING DATE: December 26, 1992
APPLICATION NUMBER: 26, 1992
APPLICATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 209/035
                                                                                                                                                                                                             TELEFAX: (213) 955-04
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                    SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: January 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: McSwiggen, James
APPLICANT: Jarvis, Thale
TITLE OF INVENTION: METHODS
TITLE OF INVENTION: TREATMEN
TITLE OF INVENTION: CANCER U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: LEW COMPUTER: IBM F.C.
OPERATING SYSTEM: IBM F.C.
OPERATING SYSTEM: IBM F.C.
OPERATING SYSTEM: IBM F.C.
OPERATING SYSTEM: IBM F.C.
                             0.9%;
Local Similarity 81.2%;
les 13; Conservation
                                                                                                                     STRANDEDNESS: sir
                                                                                                                                                                                                                               TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: 3.5" Diskette, 1.44 Mb MEDIUM TYPE: storage
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: Los Angeles
STATE: California
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 1584 CATGAACTCCAACACC 1599
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o. 5646042
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IBM P.C. DOS 5.0
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                                                     Score 12.8; DB 1; Length 17; Pred. No. 1.3e+02;
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Pred. No. 1.
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2;
                                                   .3e+02;
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                                  Gaps
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CAAGAACUCCUACACC

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RESULT 142
US-08-373-124A-1116/c
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                                                                                                                                                                                                                                                                                                                                                       US-08-373-124A-1114
                                                                                        Sequence 1116, Application US/08373124A Patent No. 5646042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1114, Application US/08373124A Patent No. 5646042
                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                               Query Match
                   GENERAL INFORMATION:
APPLICANT: Stinch
APPLICANT: Draper
APPLICANT: McSwig
                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE: (213) 489-16
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 09/192,943
FILING DATE: February 7, 1994
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/373.
FILING DATE: January 13, 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/245,466
FILING DATE: May 18, 1994
                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 07/936,422 FILING DATE: August 26, 1992 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Jarvis, Thale
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
TITLE OF INVENTION: CANCER USING RIBOZYMES
NUMBER OF SEQUENCES: 2627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM COMPACIBLE
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS:
TOPOLOGY: li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Warburg, Richard REGISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
                                                                                                                                                                                                                                                                                               Local Similarity
                                                                                                                                                                                                                                        2240 ATTACAAAAAGACCAC 2255
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                                                                                                                                                                                                         17 ATAACAAAAAAACCAC 2
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: California
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McSwiggen, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       U.S.A.
Draper, Kenneth
McSwiggen, James
Jarwis, Thale
                                                     Stinchcomb, Dan T.
                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Stinchcomb, Dan T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         : storage
IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                        linear
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                                                                                                                                                                                                                                                                                                                                                                                        single
                                                                                                                                                                                                                                                                                             0.9%;
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                                                                                                                                                                                                                                                                            0;
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                                                                                                                                                                                                                                                                                               Score 12.8; DB 1; Length 17; Pred. No. 1.3e+02;
                                                                                                                                                                                                                                                                                Mismatches
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                                                                                                                                                                                                                                                                                              RESULT 143
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                                                                                                                                                                                                                          Patent No. 5646042
GENERAL INFORMATION:
                                                                                                                                                                                                                                                    Sequence 2423, Application US/08373124A
                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION DATA:
APPLICATION UMBER: US/08/373,12:
APPLICATION UMBER: US/08/373,12:
FILING DATE: January 13, 1995
PRIOR APPLICATION NUMBER: 08/245,466
FILING DATE: MAY 18, 1994
APPLICATION NUMBER: 08/192,943
FILING DATE: February 7, 1994
APPLICATION NUMBER: 07/987,32
FILING DATE: December 7, 1992
APPLICATION NUMBER: 07/987,32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 07/936,4 FILING DATE: August 26, 1992 ATTORNEY/AGENT INFORMATION:
                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Ly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                  TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                       APPLICANT:
                                                                                                                                                                                      APPLICANT:
                                                                                     NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OPERATING SYSTEM: IBM P.C. SOFTWARE: Word Perfect 5.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Warburg, Richard REGISTRATION NUMBER: 32,327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER:
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STATE: California
                   STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: (213) 489-160
TELEFAX: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: Suite 4700
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                                                                                                                                                                                                                                                                                                                                                                                2240 ATTACAAAAAGACCAC 2255
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Los Angeles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            67-3510
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633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17 base pairs
                                 E: Lyon & Lyon
633 West Fifth Street
                   Suite 4700
                                                                                                                                                    Draper, Kenneth
McSwiggen, James
Jarvis, Thale
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                                                                                                                                                                                                          Stinchcomb, Dan T.
                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                0.9%;
                                                                                                  METHODS AND COMPOSITIONS FOR TREATMENT OF RESTENOSIS AND CONCER USING RIBOZYMES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   METHODS AND COMPOSITIONS FOR TREATMENT OF RESTENOSIS AND CANCER USING RIBOZYMES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07/936,422
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Pred. No. 1.3e
0; Mismatches
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ches 2;
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COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage

COUNTRY:

U.S.A.

California

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US-08-435-634-694
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 694, Application US/08435634
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
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APPLICANT: Draper
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 08/245,466
FILING DATE: May 18, 1994
APPLICATION NUMBER: 08/192,943
FILING DATE: February 7, 1994
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7, 1992
APPLICATION NUMBER: 07/936,422
APPLICATION NUMBER: 07/936,422
PILING DATE: August 26, 1992
APPLICATION NUMBER: 07/936,422
PILING DATE: August 26, 1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 209/035
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                   APPLICANT: McSwiggen, James
APPLICANT: Gustofson, John
APPLICANT: Stinchcomb, Dan T.
TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT
TITLE OF INVENTION: OF ARTHRITIC CONDITIONS
                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
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                                                                                                                                              ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSEQ Version 1.5
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TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/08/373,124A FILING DATE: January 13, 1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: nucleic acid
                                                                                                                                                                                                                                                       ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 17 base pairs
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                                                                                                                            90071
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Draper,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Kenneth G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.9%; Score 12.8; DB 1; Length 17; 81.2%; Pred. No. 1.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 0.9%;
Best Local Similarity 75.0%;
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS SOFTWARE: FASTSEQ Version 1.5
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/435,6:
FILING DATE: 05-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/390,850
FILING DATE: February 17, 1995
FILING DATE: February 17, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 08/390,850
FILING DATE: February 17, 1995
APPLICATION NUMBER: 08/354,920
FILING DATE: December 13, 1994
APPLICATION NUMBER: 08/152,487
FILING DATE: No. 5731295ember 12, 1991
APPLICATION NUMBER: 07/389,848
FILING DATE: December 7, 1992
ATTORNEY/ACENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: (213) 955-044
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 211/084
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Stinchcomb, Dan T.
TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT
TITLE OF INVENTION: OF ARTHRITIC CONDITIONS
NUMBER OF SEQUENCES: 1151
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                                                                                                                                                                                                                                                                                                              STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                                                                                                                                                                                  CITY: Los Angeles
STATE: California
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                                                                                                                                                                                                                                              ZIP: 90071
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                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: 514
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1694 GGGAGTTTCCAAGAGA 1709
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o. 5731295
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Gustofson, John
                                                                                                                                                                                                                                                                 U.S.A.
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                                                                                                                                                        IBM P.C. DOS 5.0
                                                                                               US/08/435,634
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Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: (213) 489-16
TELEPAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                        APPLICATION NUMBER: US
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE, DOCKET NUMBER: 211/084
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: December 7, ATTORNEY/AGENT INFORMATION:
                                                                                                         FILING DATE:
APPLICATION NUMBER: 07/882,921
FILING DATE: May 14, 1992
APPLICATION NUMBER: 07/948,359
FILING DATE: September 18, 1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 611 West Sixth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION:
TITLE OF INVENTION:
                              NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 200
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: No. 57
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: Decemb APPLICATION NUMBER:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
                                                                                                                                                                                                                        APPLICATION NUMBER: US/07/987,133
                                                                                                                                                                                                                                             FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1694 GGGAGTTTCCAAGAGA 1709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 GGGAGCUUCCACGAGA 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Los Angeles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   90017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  USA .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Kenneth G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              No. 5731295ember 12,
UMBER: 07/989,848
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.9%;
75.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             G. Draper
METHOD AND REAGENT FOR
INHIBITING HERPES SIMPLEX
VIRUS REPLICATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   er 13, 1994
08/152,487
                                                                                                                                                                                                                                                          US/08/238,200
                                                                                                                                                                                                                                                                                                                                   US/08/623,891
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                695:
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US-08-758-306-123/c
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                                                      Matches
                                                                        Query Match
Best Local
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Patent No. 58077
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FASELSEQ VERSION 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/758,306
FILING DATE: December 3, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 212/
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                            TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Stinchcomb, Dan T.
APPLICANT: McSwiggen, James A.
APPLICANT: McSwiggen, James A.
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: TREATMENT OF DISEASES
TITLE OF INVENTION: ASSOCIATED WITH
TITLE OF INVENTION: GAMMA-CHAIN EXPRESSION
TITLE OF INVENTION: GAMMA-CHAIN EXPRESSION
                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: U.S.A. ZIP: 90071-2066
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                                                                    Local
                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER:
                                                                                                                                                                                                                                                            TELEFAX:
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                                                                                                                                           COPOLOGY:
2156 CAGCCAGAAATGTTTT 2171
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                                                                        Similarity
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                                                      0.9%;
nilarity 87.5%;
Conservative
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                                                                                                                                                                                                                                                               (213) 955-0440
                                                                                                                                         linear
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Pred. No. 1.3e+02;
                                                                        Score 12.8;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DOS 5.0
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                                                          Mismatches
                                                                    1.3e+02;
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                                                                                      Length 17;
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RESULT 149
US-08-435-628-534
; Sequence 534, Application US/08435628
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                                                                                                                                                                                                                                                                                    US-08-435-628-416
                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 14; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 416, Application US/08435628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OPERATING SYSTEM: IBM P.C. DOS 5
COPERATES: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/435,62:
FILING DATE: 05-MAY-1995
CLASSIFICATION DATA:
APPLICATION UDBER: 08/373,124
PRIOR APPLICATION NUMBER: 08/245,466
FILING DATE: January 13, 1995
APPLICATION NUMBER: 08/245,466
APPLICATION NUMBER: 08/192,943
FILING DATE: Pebruary 7, 1994
APPLICATION NUMBER: 07/987,132
FILING DATE: Pebruary 7, 1992
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7, 1992
APPLICATION NUMBER: 07/987,132
FILING DATE: AUGUST 26, 1992
APPLICATION NUMBER: 07/987,132
FILING DATE: AUGUST 26, 1992
APPLICATION NUMBER: 07/987,132
FILING DATE: AUGUST 26, 1992
APTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Patent No.
                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (213) 955-04
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 20:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Stinchcomb, Dan T.
APPLICANT: Draper, Kenneth
APPLICANT: McSwiggen, James
APPLICANT: Jarvis, Thale
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
TITLE OF INVENTION: CANCER USING RIBOZYMES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
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                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER:
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                                                                                                                                              1866 GGTGTCAGAGATGGAG 1881
                                                                                                                  16 GCTGGCAGAGATGGAG 1
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: California
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633 West Fifth Street
                                                                                                                                                                                                 Conservative
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                                                                                                                                                                                          Score 12.8; DB 1;
Pred. No. 1.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      209/035
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                                                                                                                                                                                                                                    Length 17;
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RESULT 150
US-08-435-628-1114/c
                                                                                                                                                                                                                                                                                          US-08-435-628-534
                                                                                                                                                                                                               Query Match 0.9%; Score 12.8; DB 1; Best Local Similarity 81.2%; Pred. No. 1.3e+02;
                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/373,124
FILING DATE: January 13, 1995
APPLICATION NUMBER: 08/245,466
FILING DATE: May 18, 1994
APPLICATION NUMBER: 08/192,943
FILING DATE: February 7, 1994
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7, 1992
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7, 1992
APPLICATION NUMBER: 07/987,132
FILING DATE: August 26, 1992
APPLICATION HOMBER: 07/986,422
APPLICATION NUMBER: 07/987,132
                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Stinchcom
APPLICANT: Draper, K
APPLICANT: McSwiggen
APPLICANT: Jarvis, T
TITLE OF INVENTION: I
TITLE OF INVENTION: I
                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM Compatible OPERATING SYSTEM: IBM P.C. SOFTWARE: WORD Perfect 5.1 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                               LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Warburg, Richard REGISTRATION NUMBER: 32, REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: FILING DATE: 05-MAY CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: Suite 4700
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                                                                                                                                                                                                                                                                                                                COPOLOGY:
                                                                                                                         1584 CATGAACTCCAACACC 1599
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                                                                                                1 CAAGAACUCCUACACC 16
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California
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633 West Fifth Street
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                                                                                                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                                                linear
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                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                      Length 17;
                                                                                                                                                                                            0,
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Sequence 1114, Application US/08435628 Patent No. 5817796 GENERAL INFORMATION:

0

APPLICANT:

Draper, Kenneth McSwiggen, James Jarvis, Thale

Stinchcomb, Dan

633 West Fifth Street

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US-08-435-628-1116/c
; Sequence 1116, Application US/08435628
; Patent No. 5817796
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 0.9%;
Best Local Similarity 87.5%;
Matches 14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: May 18, 1994
APPLICATION NUMBER: 08/192,943
FILING DATE: February 7, 1994
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7, 1992
APPLICATION NUMBER: 07/936,422
                                                                                                                                                                                                                                                                            GENERAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                  APPLICANT:
APPLICANT:
                                                                             TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/00
FILING DATE: 05-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
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                               NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: Suite 4700
CITY: Los Angeles
STATE: California
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: January 13, 1995
APPLICATION NUMBER: 08/245,466
FILING DATE: May 18, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 08/373,124 FILING DATE: January 13, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM: IBM P.C. SOFTWARE: Word Perfect 5.1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2240 ATTACAAAAAGACCAC 2255
                                                                                                                                                                                                                                                                              INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nucleic acid
                                                                     I: McSwiggen, James
I: Jarvis, Thale
INVENTION: METHODS AND COMPOSITIONS FOR
INVENTION: TREATMENT OF RESTENOSIS AND
INVENTION: CANCER USING RIBOZYMES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  E: Lyon & Lyon
633 West Fifth Street
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (213) 955-0440
                                                                                                                                                                                                                  Draper, Kenneth
                                                                                                                                                                                                                                                  Stinchcomb, Dan T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sss: single
linear
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Lyon & Lyon
                               ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CANCER USING RIBOZYMES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 12.8; DB 1;
Pred. No. 1.3e+02;
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Best Local 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                     Sequence 2423, App
Patent No. 5817796
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: January 13, 1995
APPLICATION NUMBER: 08/245,466
FILING DATE: May 18, 1994
APPLICATION NUMBER: 08/192,943
FILING DATE: Pebruary 7, 1994
APPLICATION NUMBER: 07/987,132
FILING DATE: December 7, 1992
APPLICATION NUMBER: 07/936,422
FILING DATE: August 26, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg. Richard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
                                                                                                                                                       APPLICANT: McSwiggen, James
APPLICANT: Jarvis, Thale
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
TITLE OF INVENTION: TREATMENT OF RESTENCESS AND
TITLE OF INVENTION: CANCER USING RIBOZYMES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: 05-MAY-19
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                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Ly
                                                                                                                                                                                                                                                   APPLICANT: Stinchcomb, Dan APPLICANT: Draper, Kenneth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.9%;
Local Similarity 87.5%;
les 14; Conservation
                             CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM Compatible OPERATING SYSTEM: IBM P.C. SOFTWARE: Word Perfect 5.1
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MEDIUM TYPE: storage
                                                                                    ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
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CITY: Los Angeles
                COUNTRY:
                                                                   STREET:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   2240 ATTACAAAAAGACCAC 2255
                                                                                                                                                                                                                                                                                      INFORMATION:
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90071
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                                                                     Suite 4700
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                U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SS: single
linear
                                                                                                                                                                                                                                                                   Stinchcomb, Dan T.
                                                                                                                                                                                                                                                                                                                        Application US/08435628
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Pred. No. 1.
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CURRENT APPLICATION DATA:

OPERATING SYSTEM: IBM P.C. SOFTWARE: Word Perfect 5.1

IBM Compatible storage

IBM P.C. DOS 5.0

MEDIUM TYPE:

TYPE: 3.5" Diskette, 1.44 Mb

READABLE FORM:

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                  OPERATING SYSTEM: PC-DOS/MS
SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/5
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/960,
                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: Karn (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: lin-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 08/245,466
FILING DATE: May 18, 1995
APPLICATION NUMBER: 08/245,466
APPLICATION NUMBER: 08/192,943
FILING DATE: February 7 1001
APPLICATION February 7 1001
                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION:
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: August 26, 1992 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/373,124
FILING DATE: January 13, 1995
                                                                                                                                                                                                                                    CITY: Boston
STATE: MA
ZIP: 02111
                                                                                                                                                            MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Warburg, Richard REGISTRATION NUMBER: 3
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FILING DATE: December
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: FILING DATE: 05-MAY CLASSIFICATION: 514
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                                                                                                                                                                                                                                                                                         One Financial Center, 45th Floor
                                                                                                                                                                                                                                                                                                                                                                Karn J, Gait MJ, Heaphy S, Dingwall C
NVENTION: VIRAL (HIV) GROWTH INHIBITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                          Banner & Witcoff, Ltd
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Ph.D., Kathleen M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.9%;
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ber 7, 1992
                                                    07/960,370
                                                                                                         US/08/541,950B
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US-08-541-950B-19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                   TELEFAX: (617) 345-91
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: (6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 02111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/08/541,9
FILING DATE: 10/10/95
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/960,370
FILING DATE: 03/19/93
                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-
SOFTWARE: Wordberfect 6.1
CURRENT APPLICATION DATA:
                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 17 bases
                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION: TELEPHONE: (617) 345-9100
                                                                                                                                                                                                                                                                                                                                 FILING DATE: 03/19/93
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Karn J, Gait MJ, Heaphy S, Dingwall C TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION NUMBER OF SEQUENCES: 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-O11AX)
TELECOMMUNICATION INFORMATION:
                                                                                   TOPOLOGY: linear MOLECULE TYPE: synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
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MOLECULE TYPE: synthetic
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STATE: No.
02111
         LOCATION: 10 TOTHER INFORMATION: N is 2'-deoxythymidine
                                                                                                                                                                                                                                                                         NAME: Williams, Ph.D., Kath
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: misc_feature
LOCATION: 9
OTHER INFORMATION: N is 2'-deoxythymidine
                                  NAME/KEY: misc_feature
LOCATION: 10
                                                                                                                        TYPE: nucleic acid
STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center, 45th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1490 AGCCAGACTTCAGCAGC 1506
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 AGCCAGAUNUGAGCAGC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Boston
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (617)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (617) 345-9100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           345-9111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.9%; Score 12.8;
76.5%; Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                            US/08/541,950B
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                                                                                                                                                                                                                                                                                                                  Kathleen M.
                                                                                                                                                                                                                                                                               3777/57347 (MRC-011AX)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1.3e+02
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Score 12.8;

DB 1;

Length 17;

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US-08-541-950B-21
                                                                                                                                                              US-08-541-950B-22
                                                                                                                                                                                                                                                                                                                                                                                   US-08-541-950B-21
                                                                                                     Sequence 22, Application US/08541950B Patent No. 5821046 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21, 555
Sequence 21, 555
No. 5821046
                                                                                                                                                                                                                                                                                                                                           Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: Karn J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: (617) 345-911:
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 10/10/95
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/960
FILING DATE: 03/19/93
ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kat
                                NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                     APPLICANT: Karn J, Gait MJ, Heaphy S, Dingwall C TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION: TELEPHONE: (617) 345-9100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Karn J, Gait MJ, Heaphy S, Dingwall C TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                            госат
                                                                                                                                                                                                                                                                                                                                                                                              LOCATION: 9 - OTHER INFORMATION: N is 5-bromo-2'-deoxyuridine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Boston
STREET: One Financial Center, 45th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE:
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                  DDRESSEE:
                                                                                                                                                                                                                                                                       1490 AGCCAGACTTCAGCAGC 1506
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                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGCCAGAUUNGAGCAGC 17
                                                                                                                                                                                                                                       AGCCAGAUNUGAGCAGC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Application US/08541950B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17 bases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     One Financial Center, 45th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (617) 345-9111
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           E: Diskette, 3.50 inch, IBM PC compatible
               Banner & Witcoff, Ltd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Banner & Witcoff, Ltd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         synthetic RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                            0.9%;
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                                                                                                                                                                                                                                                                                                                            Score 12.8;
Pred. No. 1..
                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1.44 Mb storage
                                                                                                                                                                                                                                                                                                                              .3e+02;
                                                                                                                                                                                                                                                                                                                                             DB 1; Length 17;
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RESULT 157
US-08-628-145-23/c
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                                                                                                                             COUNTRY: U.S.A

ZIP: 94301

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/628,145
FILING DATE: 04-APR-1996
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/541,95
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION UNMBER: 07/960,370
PILING DATE: 03/19/93
ATTORNEY/ACENT INFORMATION:
ANAME: WILLIAM DE COMPATION:
ANAME: WILLIAM DE CO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: (617) 345-9111 INFORMATION FOR SEQ ID NO:
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CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U
FILING DATE: 10-JAN-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Seizinger, Bernd
APPLICANT: Kley, Nikolai A.
APPLICANT: Bianchi, Albert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 17 bases
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MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REGISTRATION NUMBER: 34,3
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Williams, Ph.D.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1490 AGCCAGACTTCAGCAGC 1506
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13; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                635 Bryant Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bianchi, Albert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Seizinger, Bernd R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
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76.5%;
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                                US 08/179,738
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3.50 inch, 1.44
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 12.8; DB 1;
Pred. No. 1.3e+02;
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US-08-985-162-184/c
US-08-985-162-184
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Patent No. 6057156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity 87.9
Matches 14; Conservative
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INFORMATION FOR SEQ ID NO:
                                                                          TELEPHONE: (213) 489-1600
TELEPAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 18
SEQUENCE CHARACTERISTICS:
                                                                                                                                           NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 230
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                         OFERATING SYSTEM: IBM P.C. DOS 5.0 SOFTWARE: FastSEQ for Windows 2.0 CURRENT APPLICATION DATA:
APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                              APPLICATION NUMBER: 60/036,4
FILING DATE: 31 January 1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/08/98,162
FILING DATE: 04 December 1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Akhtar, Saghir
APPLICANT: Fell, Patricia
APPLICANT: McSwiggen, James
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LENGTH: 17 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: 59
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 617-8999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ELECUTE: (415)
          LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: U.S.A. ZIP: 90071-2066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS:
TOPOLOGY: li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1579 TCCTCCATGAACTCCA 1594
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) 327-3231
NO: 23:
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OF DISEASES OR CONDITIONS RELATED
TO LEVELS OF EPIDERWAL GROWTH
FACTOR RECEPTORS
                                                                                                                                                                                                                                                                 60/036,476
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                                                                                               184:
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Pred. No. 1.
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US-08-985-162-326
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Matches
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                                                                                                                                                                                                                                                                                                                                                                    OPERATING SYSTEM: IBM P.C. DOS 5.0
SOPTWARE: FASTSEQ for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION UNMBER: US/08/985,162
FILING DATE: 04 December 1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION UNMBER: 60/036,476
FILING DATE: 31 January 1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                    TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                   NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 230
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                  Local Similarity
                                                                                                                                                 LENGTH: 17 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear
                                                                                                                                                                                                                                                      TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
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STATE: California
                               2323 AGTGATGTCTGGTCCT 2338
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AGUGAUGUCUGGAGCU 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IBM Compatible
                                                                                                                                                                                                                                                                                     (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.9%;
                                                                 0.9%; Score 12.8; DB 1; 56.2%; Pred. No. 1.3e+02; tive 5; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ENZYMATIC NUCLEIC ACID TREATMENT
OF DISEASES OR CONDITIONS RELATED
TO LEVELS OF EPIDERMAL GROWTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FACTOR RECEPTORS
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                                                                                                                                                                                                                                                                                                                       230/107
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Pred. No. 1.
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                                                                                                Length 17;
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                                                               Gaps
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RESULT 160 US-09-083-756A-18

Sequence 18, Application US/09083756A Patent No. 6114109

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RESULT 161
US-09-083-756A-19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (617) 345-911
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Williams, Ph.D., Kathl
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 37.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9100
                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
ASTREET: One Financial Center, 45th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center, 45th Floor
                                                        SOFTWARE: WordPerfect 6.1 CURRENT APPLICATION DATA:
                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inci
COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                     APPLICANT: Karn J, Gait MJ, Heaphy S, Dingwall C TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 17 bases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION
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APPLICATION NUMBER: 08/541,950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
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PRIOR APPLICATION DATA
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                                                                                                                                                       Cli.
STATE: Mr.
C2111
CTO: 02111
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCATION: 9
OTHER INFORMATION: N is 2'-deoxythymidine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: misc_feature LOCATION: 9
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                                      APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY:
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                                                                                                                                                                                                                                                                                                                                          INFORMATION:
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Similarity 76.5%;
                                                                                                                                                                                                          Boston
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linear
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                                      US/09/083,756A
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                                                                                                                                  3.50 inch,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Mismatches
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US-09-083-756A-21
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Best Local Similarity
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                                                                                                                                              TELEFAX: (617) 345-9111 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                           ATTORNEY AGENT INFORMATION:
NAME: Williams, Ph.D., Kathl
NAME: WILLIAMS, Ph.D., X34,380
REGISTRATION NUMBER: 34,380
                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/083,756A
                                                                                                         SEQUENCE CHARACTERISTICS:
LENGTH: 17 bases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE/DOCKET NUMBER: 37:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9100
                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Karn J, Gait MJ, Heaphy S, Dingwall C TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
ATTORNEY/AGENT INFORMATION:
                                 MOLECULE TYPE:
                                                                                                                                                                                                 TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
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REGISTRATION NUMBER: 34,380
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   NAME/KEY:
                                                                      STRANDEDNESS:
                                                                                                                                                                               TELEPHONE:
                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                            FILING DATE:
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                                                                                        nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        E: Banner & Witcoff, Ltd.
One Financial Center, 45th Floor
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misc_feature
                                                         linear
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                                      synthetic RNA
                                                                      single
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76.5%;
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                                                                                                                                                                                                                                                     Kathleen M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 3.50 inch, 1.44 Mb storage
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                                                                                                                                                                                                                      3777/57347 (MRC-011AX)
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Pred. No. 1.3e+02
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RESULT 164
US-08-584-040-1992/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kathle.
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3777
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-910
TELEPAX: (617) 345-9111
INFORMATION FOR SEQ ID NO: 22:
                                                   Sequence 1992,
Patent No. 634
                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                       Query Match
Best Local Similarity
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Matches 13; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
GENERAL INFORMATION:
APPLICANT: Pavco, Pamela
APPLICANT: McSwiggen, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: Karn J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/
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ADDRESSEE: Banner & Witcoff, Ltd.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Karn J, Gait MJ, Heaphy S, Dingwall CTITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                               LOCATION: 10 OTHER INFORMATION: N is 5-bromo-2'-deoxyuridine
                                                                                                                                                                                                                                                                                                               NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                            TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE:
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                                                                                                                                              1 AGCCAGAUUNGAGCAGC 17
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                                                                   Application US/08584040
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                                                                                                                                                                                                        Score 12.8; D
Pred. No. 1.3e
1; Mismatches
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Pred. No. 1.
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. 1.3e+02;
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                                                                                                                                                                                                                                                                                    Patent No.
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Matches 14; Conserv
                                                                                                                                                                                                                                                                                                        Sequence
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OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/584,040
FILLING DATE: January 11, 1996
CLASSIFICATION: 514
PRIOR APPLICATION UMBER: 60/005,974
APPLICATION NUMBER: 60/005,974
                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: Pavco, Pamela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO:
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                                                                                                                                                                                       APPLICANT:
APPLICANT:
                                                                                          APPLICANT: ESCODEDO, Jaime
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: TREATMENT OF DISEASES OR
TITLE OF INVENTION: CONDITIONS RELATED TO LEVEI
TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
TITLE OF INVENTION: GROWTH FACTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
                                                                                                                                                                                                                         APPLICANT: Pavco, Pamela APPLICANT: McSwiggen, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: 21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                     NUMBER OF SEQUENCES: 8
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STREET: 633 West Fifth
STREET: Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: nucleic acid
STRANDEDNESS: single
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TELEFAX: (213)
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REGISTRATION NUMBER: 32,327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                       ADDRESSEE:
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: California
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E: Lyon & Lyon
633 West Fifth Street
Suite 4700
                                                                                                                                                                                                         Stinchcomb, Dan T.
                                                                                                                                                                                                                                                                                                    Application US/08584040
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Escobedo, Jaime
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GROWTH FACTOR
                                                                         8502
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Pred. No. 1.
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Matches
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       SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA
APPLICATION DATA
                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: METHOD AND REAGENT FOR THE TITLE OF INVENTION: TREATMENT OF DISEASES OR TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL GROWTH FACTOR
                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Pavco, Pamela
APPLICANT: McSwiggen, James
APPLICANT: Stinchcomb, Dan T.
APPLICANT: Escobedo, Jaine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 211
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: January CLASSIFICATION: 514 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
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MEDIUM TYPE: 3.5" Diskette,
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                UMBER OF SEQUENCES:
                                                                                                                                                                               ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
                                                 COMPUTER: IBM CONCERNING SYSTEM:
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les 12; Conserv
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TYPE: nucleic acid
STRANDEDNESS: single
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                                                                                                                                                              COUNTRY:
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                                                                                                                                                 90071-2066
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California
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                                                                      IBM Compatible
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                                                                                                                                                                                                                                                                                                8502
US/08/584,040
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                                                     DOS 5.0
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RESULT 167
US-08-584-040-4140
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
APPLICATION NUMBER: US/08/584,040
FILING DATE: January 11, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/005,974
FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                   ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C.
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (213) 955-04
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 211
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: October 26, ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Pavco, Pamela
APPLICANT: McSwiggen, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: ...
STRANDEDNESS: &...
TYPE: Inear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2422 AAGGAAGGACACAGAA 2437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4140,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Stinchcomb, Dan T.
Escobedo, Jaime
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Application US/08584040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Escobedo,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   METHOD AND REAGENT FOR THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TREATMENT OF DISEASES OR CONDITIONS RELATED TO LE OF VASCULAR ENDOTHELIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GROWTH FACTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    60/005,974
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Pred. No. 1.
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Query Match 0.9%;
Best Local Similarity 50.0%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                              TELEFAX: (213) 955-044
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/584,040
FILING DATE: January 11, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION UMBER: 60/005,974
FILING DATE: October 26, 1995
FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Patent No. 6346398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: McSwigen, James
APPLICANT: McSwigen, James
APPLICANT: Stinchcomb, Dan T.
APPLICANT: Escobedo, Jaimes
TITLE OF INVENTION: TREATHOD AND REAGENT FOR THE
TITLE OF INVENTION: TREATMENT OF DISEASES OR
TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
TITLE OF INVENTION: GROWTH FACTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 8
                                                                                                                                                                                  TELEPHONE: (213) 955-0440
                                                                                    STRANDEDNESS: 811
TOPOLOGY: linear
                                                                                                                LENGTH: 17 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM CON
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: U.S.A.
ZIP: 90071-2066
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Local Similarity 68.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ET: Suite 4700
': Los Angeles
E: California
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633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Application US/08584040
                                                                                                                                                                                                                                                                                                                                                                                                                                          Word Perfect 5.1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IBM Compatible
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January 11, 1996
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 12.8; DB 1;
Pred. No. 1.3e+02;
3; Mismatches 2;
Score 12.8; DB 1;
Pred. No. 1.3e+02;
6; Mismatches · 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOS 5.0
                                 Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 17;
Indels
0
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Gaps
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0
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                                                               RESULT 170
US-08-584-040-8106/c
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               Sequence 8106, Application US/08584040 Patent No. 6346398 GENERAL INFORMATION:
                                                                                                                                                                                                      Matches
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APPLICANT: Pavco, Pamela
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US-08-584-040-7971
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                                                                                        Query Match
Best Local Similarity
                                                                                                                                                                                                                                                     TELEFAX: (213) 955-04-
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/584,040
FILING DATE: January 11, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/005,974
FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: METHOD AND REAGENT FOR THE TITLE OF INVENTION: TREATMENT OF LISEASES OR TITLE OF INVENTION: CONDITIONS RETED TO LEVELS TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL TITLE OF INVENTION: GROWTH FACTOR NUMBER OF SEQUENCES: 8502
                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
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                                                                                                                                                                                                                                                                             TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STREET: Suite 4700
CITY: Los Angeles
                                                                                                                                                                                  STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE:
                        1843 ACAGAGAAAGACCTTT 1858
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16 ACAGAGAAACCCCTTT 1
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). 6346398
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3: Lyon & Lyon
633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        U.S.A.
                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              McSwiggen, James
Stinchcomb, Dan '
Escobedo, Jaime
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pavco, Pamela
                                                                                                                                                                linear
                                                                                                                                                                              single
                                                                                        0.9%;
                                                                      Score 12.8; Di
Pred. No. 1.3e
0; Mismatches
                                                                      0;
                                                                                        1.3e+02;
                                                                                                         Length 17;
                                                                        Indels
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US-09-340-861-21
                                                                                                                                                                                                                                                                                  RESULT 171
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: (213) 955-044
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                FILING DATE: January 11, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette,
MEDIUM TYPE: storage
COMPUTER READABLE FORM
                                                                                                                                                TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 60/00 FILING DATE: October 26, ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE
                                                                                                                CORRESPONDENCE ADDRESS:
                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/584,040
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OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Los Angeles
STATE: California
                                                                                                 ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                               1775 TGGGAATTGACAAAGA 1790
                                                                                                                                                                                                                                                                                                                                  17 TGCGAATGGACAAAGA 2
                                                                                                                                                                                                                                                                                                                                                                                                  14;
                                                                                                                                                                                                                                                                                                                                                                                               h 0.9%; Score 12.8; DB 1; Length 17; Similarity 87.5%; Pred. No. 1.3e+02; 11dels 14; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  90071-2066
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633 West Fifth Street
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                                                                                   611 West Sixth Street
                                                                                                                                                                                                  Kenneth G. Draper
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                                                                                                                                                  VIRUS REPLICATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TREATMENT OF DISEASES OR CONDITIONS RELATED TO LEVELS OF VASCULAR ENDOTHELIAL
                                                                                                                                                                METHOD AND REAGENT FOR INHIBITING HERPES SIMPLEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IBM P.C. DOS 5.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 21, Application US/09634262
Patent No. 6440719
GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO:
APPLIANCE DATE:
FILING DATE:
APPLICATION NUMBER: 07/882, ><.
APPLICATION NUMBER: 07/948,359
APPLICATION NUMBER: 07/948,359
APPLICATION September 18, 1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Kenneth G
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 07/882,921
FILING DATE: May 14, 1992
APPLICATION NUMBER: 07/948,359
FILING DATE: September 18, 1992
ATTORNEY/AGENT INFORMATION:
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PRIOR APPLICATION DATA:
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                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM: IBM P.C. DOS (Version 5.0) SOFTWARE: WordPerfect (Version 5.1)
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mes 12; Conserv
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TOPOLOGY: 111
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                                                                                                                                                        CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                        STREET: 611 West CITY: Los Angeles
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REGISTRATION NUMBER: 32,327
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                                                                                                                                                                         FILING DATE:
                                                                                                                                                                                          APPLICATION NUMBER:
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VENTION: METHOD AND REAGENT FOR
VENTION: INHIBITING HERPES SIMP
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Pred. No. 1.3e+02;
2; Mismatches 2;
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GENERAL INFORMATION:
APPLICANT: EL SOLH, NEVINE
APPLICANT: EL SOLH, NEVINE
APPLICANT: ALLIGNET, JEANINE
TITLE OF INVENTION: POLYNUCLEOTIDES AND THEIR USE FOR DETECTING RESISTANCE
TITLE OF INVENTION: TO STREPTOGRAMIN A OR TO STREPTOGRAMIN B AND RELATED
TITLE OF INVENTION: COMPOUNDS
FILE REFERENCE: 03715-0059
CURRENT APPLICATION NUMBER: US/09/446,301A
CURRENT FILING DATE: 1999-12-20
NUMBER OF SEQ ID NOS: 51
SOFTWARE: Patentin Ver: 2.1
SEQ ID NO 31
LENGTH: 17
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
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US-09-474-432B-783
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                                                                                            APPLICANT: Ribozyme Pharmaceuticals,
APPLICANT: Beigelman, Leo
APPLICANT: Burgin, Alex
APPLICANT: Beaudry, Amber
APPLICANT: Karpeisky, Alex
APPLICANT: Adamic, Jasenka
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INFORMATION FOR SEQ ID NO:
                APPLICANT: Zinnen, Shawn
TITLE OF INVENTION: Nucleotide triphosphate and their incorporation into oligonucleon
FILE REFERENCE: MBHB00-831-B (247/276)
                                                          APPLICANT:
CURRENT APPLICATION NUMBER: US/09/474,432B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: Description of Artificial Sequence: Primer
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REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 201
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
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TELEFAX: (213) 955-0440
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12; Conserv
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                                                                      Beaudry, Amber
Karpeisky, Alex
Adamic, Jasenka
Sweedler, David
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; Sequence 554, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-537
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US-09-371-772B-537/c
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; ORGANISM: Homo sapiens
US-09-474-432B-783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: US 60/064,866
PRIOR FILLING DATE: 1997-11-05
PRIOR PELICATION NUMBER: US 60/084,727
PRIOR PELICATION NUMBER: US 60/084,727
PRIOR PELICATION NUMBER: US 09/186,675
PRIOR PELICATION NUMBER: US 09/301,511
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SEQ ID NO 537
LENGTH: 17
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Best Local Similarity
Matches 10; Conservat
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Best Local S
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GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Pavco, Pam
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 537,
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APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/99/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR PELICATION NUMBER: US 60/005,974
PRIOR PILING DATE: 1995-10-26
PRIOR PILING DATE: 1995-01-08
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McSwiggen, Jim
Stinchcomb, Dan
Escobedo, Jaime
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87.5%; Pred. No. 1.3e+02;
tive 0; Mismatches 2; Indels
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Pred. No. 1.
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TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re

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US-09-371-772B-1285/c
; Sequence 1285, Application US/09371772B
; Patent No. 6566127
                                                                                                                                                                                                                                           RESULT 178
US-09-371-772B-1907
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; ORGANISM: Homo sapiens
US-09-371-772B-554
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                                                 GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals,
APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
                                                                                                                                                                                          Sequence 1907, Application US/09371772B Patent No. 6566127
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Best Local (
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Best Local
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PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: US 08/584,040 PRIOR FILING DATE: 1996-01-08 NUMBER OF SEQ ID NOS: 14225 SOFTWARE: Patentin version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: StinchComb, Dan
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
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CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
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PRIOR FILING DATE: 1995-10-26
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: RNA
ORGANISM: Homo sapiens
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75.0%;
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; ORGANISM: Homo sapiens
US-09-371-772B-1907
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; ORGANISM: Mus sp.
US-09-371-772B-2681
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APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
                                                                                                                                                                            GENERAL INFORMATION:
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Best Local
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CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 199-08-10
RRIOR APPLICATION NUMBER: US 60/005,974
RRIOR APPLICATION NUMBER: US 60/005,974
RRIOR PILING DATE: 1995-10-26
PRIOR PILING DATE: 1995-10-26
PRIOR FILING DATE: 1995-01-08
                                                                  APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
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CURRENT APPLICATION UNMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR PPLICATION NUMBER: US 08/584,040
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR EPLING DATE: 1996-01-08
PRIOR EPLING DATE: 1996-01-08
                       APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
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FILE REFERENCE: MBHB00,876-J
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Local Similarity 68.8%;
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8; Conserv
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Pred. No. 1.3e+02;
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Pred. No. 1
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RESULT 182
US-09-371-772B-4565/c
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; ORGANISM: Mus sp.
US-09-371-772B-3754
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; ORGANISM: Mus sp.
US-09-371-772B-3889
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Best Local Similarity
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LENGTH: 17
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APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions I
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR PILING DATE: 1995-10-26
PRIOR FILING DATE: 1995-10-26
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APPLICANT: McSwiggen, Jim
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Stobedo, Jaime
APPLICANT: Escobedo, Jaime
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
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TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
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PRIOR FILING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
SOFTWARE: PatentIn version 3.0
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APPLICANT: Pavco, Pam
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PRIOR FILING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
SOFTWARE: Patentin version 3.0
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Pred. No. 1.
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Pred. No. 1.
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RESULT 184
US-09-371-772B-6727
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US-09-371-772B-5571/c
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                                                                                                GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 5571
LENGTH: 17
TYPE: RNA
ORGANISM: Homo sapiens
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TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR FILING DATE: 1995-10-26
PRIOR FILING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
COURTAINED SEQ ID NOS: 14225
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APPLICANT:
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APPLICANT: Escobedo, Jaime.
TITLE OF INVENTION: Method and Reagent for the Treatment of
TITLE OF INVENTION: Levels of Vascular Endothelial Growth F
FILE REFERENCE: MEHBOO, 876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
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PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
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Local Similarity 87.5%;
1es 14; Conservation
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Local Similarity 87.5%;
les 14; Conservation
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McSwiggen, Jim
Stinchcomb, Dar
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Pred. No. 1.
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Pred. No. 1.
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; ORGANISM: Homo sapiens
US-09-371-772B-6727
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APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MedhBo0, 876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
                    APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
FILE REFERENCE: MBHB00,876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
                                                                                                                                                                      APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Pavco, Pam
APPLICANT: McSwiggen, Jim
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SOFTWARE: PatentIn version 3.0
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PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
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PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
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TYPE: RNA
ORGANISM: Homo sapiens
PRIOR APPLICATION NUMBER: US 60/005,974
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11 Similarity 81.28;
13; Conservation
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Similarity 56.2%;
9; Conservation
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Pred. No. 1.
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Pred. No. 1.3e+02;
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; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-6762
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; ORGANISM: Homo sapiens
US-09-371-772B-6888
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                                                                                                                                                                                                                                                                        Sequence 29, Application US/09099932 Patent No. 6570001 GENERAL INFORMATION:
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Best Local Similarity
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Patent No. 6566127
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APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
TITLE REFERENCE: MBHB00,876-J (237/198)
CURRENT REPERENCE: MBHB00,876-J (237/198)
CURRENT FILLING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1995-01-08
NUMBER: OF SEO ID NOS: 14225
RUMBER OF SEO ID NOS: 14225
              APPLICANT: El Solh, Nevine
APPLICANT: Allignet, Jeanine
APPLICANT: Allignet, Jeanine
TITLE OF INVENTION: POLYNUCLEOTIDES AND THEIR USE FOR DETECTING RESISTANCE
TITLE OF INVENTION: TO STREPTOGRAMIN A OR TO STREPTOGRAMIN B AND RELATED
TITLE OF INVENTION: COMPOUNDS
FILE REFERENCE: 03495, 0173-00000
CURRENT APPLICATION NUMBER: US/09/099,932
CURRENT FILING DATE: 1998-06-19
EARLIER APPLICATION NUMBER: 60/050,380
EARLIER FILING DATE: 1997-06-20
NUMBER OF SEQ ID NOS: 50
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PRIOR APPLICATION NUMBER: US OF SERIOR FILING DATE: 1995-01-08
NUMBER OF SEQ ID NOS: 14225
SOFTWARE: PatentIn Ver. 2.0
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8; Conserv
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Pred. No. 1.3e+02;
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Pred. No. 1
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RESULT 189
US-08-651-472-75
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Patent No.
                                                                                                                                                                                                                                           APPLICATION NUMBER: US 07/750,080
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 30472/166/
TELEPHONE: (202)672-5300
TELEPHONE: (202)672-5399
                                                                                                                                                                                                              NFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: FALKNER, FAIKO GUNTER
APPLICANT: PFLEIDERER, Michael
TITLE OF INVENTION: DIRECT MOLECU
TITLE OF INVENTION: VIRUSES CONTA
TITLE OF INVENTION: (HIV-1) ANTIG
                                                                                                                                                         SEQUENCE CHARACTERISTICS:
LENGTH: 14 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
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APPLICATION NUMBER: US 07/914,738
FILING DATE: 20-JUL-1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                MOLECULE TYPE: Other nucleic acid;
DESCRIPTION: Synthetic DNA oligonucleotide
IMMEDIATE SOURCE:
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NAME/KEY:
LOCATION:
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OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 20007-5109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE: Foley & Lardner STREET: 3000 K Street, N.W.,
                                                                                                                                        STRANDEDNESS:
                                                                                                                         POPOLOGY:
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                                                   gp160 in vselP-gp160 virus
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CDS
3..14
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95
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                                                                                                                                                                                                                                                                                                     30472/166/IMMU
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Pred. No. 1.3e+02
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RESULT 191
US-08-358-928-75
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CURRENT FILING DATE: 1997-12-24
EARLIER APPLICATION NUMBER: 60/037,658
EARLIER FILING DATE: 1997-01-23
EARLIER APPLICATION NUMBER: 08/373,124
EARLIER APPLICATION NUMBER: 08/373,124
EARLIER FILING DATE: 1995-01-13
EARLIER APPLICATION NUMBER: 08/245,466
EARLIER FILING DATE: 1994-05-18
NUMBER: OF SEQ ID NOS: 375
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COUNTRY: USA
ZIP: 20007-5109
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
OPERATING SYSTEM: Release #1.0, Vo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: JARVIS, THALE
APPLICANT: MCSWIGGEN, JAMES A.
APPLICANT: STINCHCOMB, DAN T.
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES
TITLE OF INVENTION: OR CONDITIONS RELATED TO LEVELS OF C-FOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
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ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH
                                                                                                                                                                                                                                           APPLICANT: SCHEIFLINGER, Friedrich
APPLICANT: FALKNER, Falko Gunter
APPLICANT: FPLEIDERER, Michael
TITLE OF INVENTION: DIRECT MOLECULAR CLONING OF CHIMERIC
TITLE OF INVENTION: VIRUSES CONTAINING HUMAN IMMUNODEFCIENCY VIRUS TYPE
TITLE OF INVENTION: (HIV-1) ANTIGENS
NUMBER OF SEQUENCES: 95
                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                            CITY: Washington
                                                                                                                                                                               ADDRESSEE: Foley & Lardner STREET: 3000 K Street, N.W.,
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78.6%; Pred. No. 1e
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Pred. No. 1e+02;
                                                                                                                                                                                   Suite 500
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      Version #1.30
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                                                                  Matches
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                                                                                             Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/09/535,366C CURRENT FILING DATE: 2000-03-24
                                                                                                                                                                                                                                                                                                                                                         APPLICANT: SYKES, KATHRYN F.
APPLICANT: JOHNSTON, STEDHEN A.
TITLE OF INVENTION: LINEAR AND CIRCULAR EXPRESSION ELEMENTS
FILE REFERENCE: UTSD:557
                                                                                                                                                                                                                                                           SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 60/125,864 PRIOR FILING DATE: 1999-03-24
                                                                                                                                                                          LENGTH: 14
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 5
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                                                                                                                                             OTHER INFORMATION: OTHER INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELECOMMUNICATION INFORMATION: TELEPHONE: (202)672-5300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
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DESCRIPTION: Synthetic DNA oligonucleotide
                                                                                                                                                                                                                                              ID NO 3
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LOCATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US 07/914,738
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                                                                                Local
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                  1882 ATGATGAAGATGAT 1895
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                                                               Similarity 9; Conserv
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AUGAUGAUGAU 14
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                                                               Conservative
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3..14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           double
                                                                                                                                               Description of Artificial Sequence: Primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.9%;
                                                                              0.9%;
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                                                               Score 12.4; DB 1;
Pred. No. 1e+02;
4; Mismatches 1;
                                                                                             Length 14;
                                                                                                                                                              Synthetic
                                                               0,
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US-09-535-366C-5/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 5, Application US/09535366C Patent No. 6410241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/09/535,366C
CURRENT FILING DATE: 2000-03-24
PRIOR APPLICATION NUMBER: 60/125,864
PRIOR FILING DATE: 1999-03-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: SYKES, KATHRYN F. APPLICANT: JOHNSTON, STEPHEN A TITLE OF INVENTION; LINEAR AND FILE REFERENCE: UTSD:557
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: Primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH:
                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                      CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/334,847
FILING DATE: No. 5693532ember 4, 1994
              ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,:
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: METHOD AND REAGTITLE OF INVENTION: INHIBITING RESPITITE OF INVENTION: SYNCYTIAL VIRUS
TELECOMMUNICATION INFORMATION:
                                                                                                                     PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                        STREET: 633 west --
STREET: Suite 4700
CITY: Los Angeles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
nes 13; Conserv
                                                                                                                                                                                                       COMPUTER: IBM CON
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                COUNTRY: U.S.A. ZIP: 90071-2066
                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE:
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633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Application US/08334847
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Pavco, Pam
                                                                                                                                                                                          Word Perfect 5.1
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STEPHEN A.
INEAR AND CIRCULAR EXPRESSION ELEMENTS
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                           32,327
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                209/032
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Pred. No. 1
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US-08-363-240A-63/c ; Sequence 63, Application US/08363240A ; Patent No. 5705388
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0.9%;
Best Local Similarity 92.9%;
Matches 13; Conservative
                                                                            -08-363-240A-63
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Best Local Similarity 71.4%;
                                                                                                                                         TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
1.FNCTU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                               TYPE: nucleic acid
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM: IBM P.C. SOFTWARE: Word Perfect 5.1 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                            TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/08/363, FILING DATE: December 23, 1994 PRIOR APPLICATION DATA: APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: METHOD AND REAGENT FOR TITLE OF INVENTION: PREVENTION, INHIBITION FROERESSION AND REGRESS OF INVENTION: OF VASCULAR DISEASES
                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
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TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                           NAME: Warburg, Richard REGISTRATION NUMBER: 32,327
                                                                                                                                                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS: Bir
TOPOLOGY: linear
                                                                                                                                                                                                            TELEFAX:
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                                                                                                                                                                                                            (213) 955-0440
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Bisgaier, Charles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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                           Score 12.4; DB 1; Length 15; Pred. No. 1.2e+02;
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Pred. No. 1.2e+02;
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          red. No. 1.2e+02;
Mismatches 1
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          Indels
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US-08-657-884-27/c
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                                                                                                                                                                                                                                                        Sequence 31, Application US/08657884
Patent No. 5858981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 27, Application US/08657884 Patent No. 5858981 GENERAL INFORMATION:
                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (703) 816-41 INFORMATION FOR SEQ ID NO:
                                                                   CORRESPONDENCE ADDRESS:
ADDRESSE: NIXON & VANDERHYE P.C.
STREET: 1100 NORTH GLEBE ROAD, 8TH FLOOR
CITY: ARLINGTON
STATE: VIRGINIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                             APPLICANT: SCHREIBER, ALAN D.
APPLICANT: PARK, JONG-GU
TITLE OF INVENTION: METHODS OF INHIBITING PHAGOCYTOSIS
NUMBER OF SEQUENCES: 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/657,88
FILING DATE: 07-JUN-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: SCHREIBER, AL APPLICANT: PARK, JONG-GU TITLE OF INVENTION: METH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE: DNA (genomic)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES:
                                    COUNTRY: U.S.A. ZIP: 22201-4714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TORNEY/AGENT J.
NAME: WILSON, MARY J.
12,955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: U.S.A. ZIP: 22201-4714
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: nucleic acid
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1100 NORTH GLEBE ROAD, 8TH FLOOR
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---- TD NO: 27:
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Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.9%; Score 12.4; DB 1; Length 15; 92.9%; Pred. No. 1.2e+02;
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COMPUTER:

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; MOLECULE TYPE: DNA (genomic) US-08-657-884-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (703) 816-40
TELEPAX: (703) 816-4100
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
INFORMATION FOR SEQ ID NO: 2115:
                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                   NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
TELECOMMUNICATION INFORMATION:
                                                                                                                                      APPLICATION NUMBER: 60/000,951 FILING DATE: July 7, 1995 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                           APPLICATION NUMBER: US/08/585,684B FILING DATE: January 16, 1996 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                           COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FASTURE VERSION 1.5
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Jarvis, Thale APPLICANT: McSwiggen, James
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 55
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TORNEY/AGENT TORNEY/AGENT J.
NAME: WILSON, MARY J.
32,955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/01
FILING DATE: 07-JUN-1996
CLASSIFICATION: 424
                  TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Lyon & Lyon STREET: 633 West Fifth Street STREET: Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
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o. 5877021
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SYSTEM: PC-DOS/MS-DOS
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                                                  (213) 489-1600
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        METHOD AND REAGENT FOR THE INDUCTION OF GRAFT TOLERANCE AND REVERSAL OF IMMUNE RESPONSES
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92.9%;
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US-08-716-308-13
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                                                             Query Match
Best Local Similarity
Matches 13; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB95/00677
FILING DATE: 27-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION UNMBER: GB 9405951.6
FILING DATE: 25-MAR-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO:
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                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Rel
                                                                                                                                                                                                                                                                            TELECOMMUNICATION INFORMATION:
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CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/08/716,308 FILING DATE: 24-SEP-1996 CLASSIFICATION: 424
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TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                             NAME: Hohenschutz, Liza D. REGISTRATION NUMBER: 33,712 REFERENCE/DOCKET NUMBER: PP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
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Local Similarity 92.9%;
les 13; Conservative
                                                                                                                                                                                            TYPE: nucleic acid
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CITY: Wilmington
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                            2166 TGTTTTGGTAACAG 2179
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   2 TGTTTTCGTAACAG 15
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                                                              Conservative
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                                                                                                                                                                                                                                                             (302) 886-1699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Floppy disk
                                                                                                                                                                             single
                                                                               0.9%; Score 12.4; DB 1; 92.9%; Pred. No. 1.2e+02;
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Pred. No. 1.2e+02;
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Mismatches 1
                                                                Mismatches
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RESULT 200 US-08-913-833-157/c ; Sequence 157, Application US/08913833

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RESULT 201
US-09-038-073-2115/c
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FILING DATE: 26 Jan 1996
PRIOR APPLICATION DATA:
APPLICATION UNMBER: EP 96870081.5
FILING DATE: 25 Jun 1996
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:008
INFORMATION FOR SEQ ID NO: 157:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
CTRANSTONEES: 151:
                                                                                                                                                                                                                                                      Sequence 2115, Application US/09038073 Patent No. 6194150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches 13; Conservative
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                                                                                                                                                                                                                                     GENERAL INFORMATION:
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ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: DE PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/08/913,833
FILING DATE: 15 Sep 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP97/00211
FILING DATE: 17 Jan 1997
PRIOR APPLICATION DATA:
                                                                                                                                                              APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: McSwiggen, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE: DI
HYPOTHETICAL: NO
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: Microsoft Word 6.0 / CURRENT APPLICATION DATA:
                                                           CORRESPONDENCE ADDRESS:
                                                                                                   TITLE OF INVENTION: METHOD AND REAGENT FOR THE TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE AND REVERSAL OF IMMUNE RESPONSES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
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APPLICANT: LOUWAGIE, JOOST
APPLICANT: ROSSAU, RUDI
TITLE OF INVENTION: METHOD FOR DETECTION OF DRUG-INDUCED
TITLE OF INVENTION: MUTAATIONS IN THE REVERSE TRANSCRIPTASE GENE
NUMBER OF SEQUENCES: 164
                                                                                     NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Match 0.9%; Score 12.4; Local Similarity 92.9%; Pred. No. 1.
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CITY: HOUSTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRANDEDNESS:
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                                            ADDRESSEE:
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EE: Lyon & Lyon
633 West Fifth Street
Suite 4700
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US-09-158-980-27/c
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Patent No. 6242427
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
                                                                                                                                            COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/158,980
FILLING DATE:
                                                                                                                                                                                                                                                  ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: (
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SOFTWARE: FASTSEQ VERSION 1.5
CURRENT APPLICATION DATA:
ATTORNEY/AGENT INFORMATION:
NAME: WILSON, MARY J
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 55
                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: METHODS OF INHIBITING PHAGOCYTOSIS NUMBER OF SEQUENCES: 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: SCHREIBER, ALL
APPLICANT: PARK, JONG-GU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                     STREET: 1100 NORTH GLEBE ROAD, 8TH FLOOR CITY: ARLINGTON STATE: VIRGINIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                               CLASSIFICATION:
                                                                                                                                                                                                                                                                                                COUNTRY: U.S.A. ZIP: 22201-4714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: NIXON & VANDERHYE P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY:
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                                                                                            08/657,884
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   555-46
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Pred. No. 1.2e+02;
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US-09-158-980-31/c
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                                                                                                                   US-09-158-980-31
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Patent No. 6
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                                                                       Query Match
Best Local Similarity
                                                          Matches
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                                                                                                                                                                                                                                                                FILING DATE:
ATTORNEY AGENT INFORMATION:
NAME: WILSON, MARY J.
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 555-
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DDS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/158,980
                                                                                                                                TOPOLOGY: li
                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: SCHREIBER, ALAN D. APPLICANT: PARK, JONG-GU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
                                                                                                                                                           STRANDEDNESS:
                                                                                                                                                                                                                                      TELEPHONE: (703)
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TOPOLOGY: lir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: ARLINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET:
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                           1783 GACAAAGACAAGCC 1796
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6242427
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GACAAAGACAAGAC 2
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                                                         Conservative
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                                                                                                                                                                                                                                  (703) 816-4000
703) 816-4100
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                                                                                                                                DNA (genomic)
                                                                                                                                                             single
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ID NO: 27:
                                                                       0.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            METHODS OF INHIBITING PHAGOCYTOSIS
                                                                                                                                                                                                                                                                                                                                                         08/657,884
                                                                                                                                                                                                                         31:
                                                                                                                                                                                                                                                                                    555-46
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                                                                       Score 12.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-580-794C-157/c
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Best Local Similarity
Matches 13; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 8473,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Patent No. 6346398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: 08/913,833 now US/6,087,093
PRIOR FILING DATE: 1997-09-15
PRIOR APPLICATION NUMBER: PCT/EP 97/00211
PRIOR FILING DATE: 1997-01-17
PRIOR APPLICATION NUMBER: EP 96870005.4
PRIOR FILING DATE: 1996-01-26
PRIOR APPLICATION NUMBER: EP 96870081.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Stuyver, Lieven
APPLICANT: Louwagie, Joost
APPLICANT: Rossau, Rudi
TITLE OF INVENTION: METHOD FOR DETECTION OF DRUG-INDUCED MUTATIONS IN THE REVERSE
TITLE OF INVENTION: TRANSCRIPTASE GENE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR FILING DATE: 1996-06-25
NUMBER OF SEQ ID NOS: 164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/09/580,794C CURRENT FILING DATE: 2000-05-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE: INNS008--2
                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA ORGANISM: Artificial sequence
                                                     OPERATING SYSTEM: IBM P.C. DOS SOFTWARE: Word Perfect 5.1 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ENGTH:
                                                                                                                                                                             COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Pavco, Pamela
APPLICANT: McSwiggen, James
APPLICANT: Stinchcomb, Dan T.
                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                               STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                                                                                                                                  CITY: Los Angeles
STATE: California
                             APPLICATION NUMBER: FILING DATE: Janua:
                                                                                                  COMPUTER: IBM CON OPERATING SYSTEM:
                                                                                                                                     MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                COUNTRY: U.S.A. ZIP: 90071-2066
         CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1856 TTTCTGATCTGGTG 1869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Application US/08584040
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                                                                                                                   IBM Compatible
January 11, 1996
DN: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.9%;
                                                                                                                                                                                                                                                                                                                                                                                       METHOD AND REAGENT FOR THE TREATMENT OF DISEASES OR CONDITIONS RELATED TO LEVELS OF VASCULAR ENDOTHELIAL
                                                                                                                                                                                                                                                                                                                                                                       GROWTH FACTOR
                                                                                                                                                                                                                                                                                                                                                      8502
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ATTORNEY/AGENT INFORMALL.

NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 8473:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                            ; SEQ ID NO 4128
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Mus sp.
US-09-371-772B-4128
                                                                                                                                                      RESULT 207
US-08-527-060-14/c
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US-09-371-772B-4128
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  Sequence 14, Application US/08527060
PATENT NO. 5834440
GENERAL INFORMATION:
APPLICANT: Goldenberg, Tsvi
APPLICANT: Tittz, Richard
TITLE OF INVENTION: RIBOZYME THE
TITLE OF INVENTION: AND/OR PREVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 4128, Application US/09371772B
Patent No. 6566127
GENERAL INFORMATION:
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor FILE REFERENCE: MedhBo0, 976-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR SEQ ID NOS: 14225
NUMBER OF SEQ ID NOS: 14225
SOFTMARE: PatentIn version 3.0
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APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Ribozyme Pharmaceuticals, Inc. APPLICANT: Pavco, Pam
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AFFILIATION NUMBER: 60/005,974
FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Uncharacture
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
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McSwiggen, Jim
Stinchcomb, Dan
Escobedo, Jaime
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AAAAUGUUGAAAGA 14
RIBOZYME THERAPY FOR THE TREATMENT AND/OR PREVENTION OF RESTENOSIS
                                                                                                                                                                                                                                                                                                                         3; Mismatches
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APPLICANT: RANCA, WARPICANT: APPLICANT: McSwiggen, Jim
APPLICANT: McSwiggen, Jim
APPLICANT: Stinchcomb, Dan
APPLICANT: Stinchcomb, Dan
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: Method and Reagent for the Treatment of Dig
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Fact
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Fact
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Fact
TITLE OF INVENTION: Levels of Vascular Endothelial Growth Fact
TITLE OF INVENTION: Method and Reagent for the Treatment of Dig
TITLE OF INVENTION: NUMBER: US/09/371,772B
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 199-08-10
PRIOR FILING DATE: 1995-01-8
PRIOR FILING DATE: 1995-01-8
NUMBER OF SEQ ID NOS: 14225
SOPTWARE: PatentIn version 3.0
SEQ ID NO 5827
LENGTH: 16
TYPE: RNA
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                                                                                                                                        ; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-5827
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US-09-371-772B-5827
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                               Query Match
Best Local Similarity
Matches 11; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Ribozyme Pharmaceuticals, Inc. APPLICANT: Pavco, Pam APPLICANT: McSwiggen, Jim APPLICANT: Stinchcomb, Dan APPLICANT: Escobedo, Jaime
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: McMasters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 480124.402C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/527,060
FILING DATE: 12-SEP-1995
CIASSIFICATION: 514
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LENGTH: 16 base pairs
TYPE: nucleic acid
STRANGENESS: single
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ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: 6300 C
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2169 TTTGGTAACAGAAA 2182
  1924 CTTGGAGCCTGCAC 1937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              14 TTTGGTGACAGAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Washington
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                                              Conservative
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                                              0.9%; Score 12.4; DB 1; 78.6%; Pred. No. 1.3e+02; ative 2; Mismatches 1;
                                                                                          Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of Diseases or Conditions Re
th Factor Receptor
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                                              Gaps
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US-08-765-340-141

| Sequence 141, Application US/08765340

| Patent No. 6150092
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; Sequence 85, Application US/09475947A
; Patent No. 6472154
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                                                                                   RESULT 211
                                                                                                                                                                                                                                                                                                  ; TYPE: RNA
; ORGANISM: Homo sapiens
US-08-998-099-328
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CURRENT FILING DATE: 1999-12-31
NUMBER OF SEQ ID NOS: 346.
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 85
LENGTH: 12
TYPE: DNA
ORGANISM: human
                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 328
LENGTH: 14
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/08/998,099A
CURRENT FILING DATE: 1997-12-24
EARLIER APPLICATION NUMBER: 60/037,658
EARLIER FILING DATE: 1997-01-23
EARLIER APPLICATION NUMBER: 08/373,124
EARLIER FILING DATE: 1995-01-13
EARLIER APPLICATION NUMBER: 08/245,466
EARLIER APPLICATION NUMBER: 08/245,466
EARLIER APPLICATION NUMBER: 08/245,466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: JARVIS, THALE
APPLICANT: MCSWIGGEN, JAMES A.
APPLICANT: STINCHCOMB, DAN T.
APPLICANT: STINCHCOMB, DAN T.
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES
TITLE OF INVENTION: OR CONDITIONS RELATED TO LEVELS OF C-FOS
FILE REFERENCE: 231/175
FILE REFERENCE: 231/175
CURRENT APPLICATION NUMBER: US/08/998,099A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Patent No. 6103890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Garner, Harold R.
APPLICANT: Wren, Jonathan D.
APPLICANT: Minna, John D.
TITLE OF INVENTION: Polymorphic Repeats in Human Genes
FILE REFERENCE: UTSD0667
                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 375
                                                                                                                                                                                                             Local 5.
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nes 12; Conserv
                                                                                                                                                                                 1545 GCGGAGACAGGT 1556
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100.0%; Pred. No. 86;
tive 0; Mismatches
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hes 0;
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                                                                                                                                                                                                                                     Sequence 121, Application US/07664989B Patent No. 5223409
                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDIUM TYPE: Floppy disk
COMPUTEN: IBM PC Compatible
COMPUTEN: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, V
SOFTWARE: #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION UNMERR: US/08/765,340
FILING DATE: 23-DEC-1996
                                                                                                                                                                                                GENERAL INFORMATION: APPLICANT: Ladner,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE: (212) 758-4
TELEFAX: (212) 751-684
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 145146/94
EILING DATE: 27-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION UDATA:
APPLICATION UMBER: JP 311130/94
FILING DATE: 21-NOV-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: linear MOLECULE TYPE: othe DESCRIPTION: /des
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: APPLICANT:
                                                 APPLICANT: Markland, William
APPLICANT: Ley, Arthur Charles
APPLICANT: Kent, Rachel Baribault
TITLE OF INVENTION: Directed Evolution of No. 5223409el
TITLE OF INVENTION: Binding Proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: SERUNIAN, LESLIE
REGISTRATION NUMBER: 35,353
REFERENCE/DOCKET NUMBER: 14:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                    NUMBER OF SEQUENCES: 1
                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: MATSUDA, Y.,
APPLICANT: KONDO, S.
TITLE OF INVENTION: AN ANTISENSE NUCLEIC
TITLE OF INVENTION: COMPOUND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 14 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity 100.0%; es 12; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                 1935 CACACAGGATGG 1946
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UCHIDA, T.,
TANAKA, Y.,
MATSUDA, Y.,
                                                                                                                                                       Guterman, Sonia Kosow
Roberts, Bruce Lindsay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           USA
                                                                                                                                                                                                  Ladner, Robert Charles
Browdy and Neimark
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      other nucleic acid
/desc = "synthetic DNA"
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100.0%; Pred. No.
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COUNTRY: U

USA

Washington

Suite 300

419 Seventh Street, N.W.

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RESULT 213
US-09-177-359-34/c
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                                                                                                         CURRENT APPLICATION NUMBER: US/09/177,359B
CURRENT FILING DATE: 1998-10-23
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 34
LENGTH: 15
TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                       Sequence 34, Application US/09177359B Patent No. 6183963
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity Matches 12; Conserv
 Query Match
                                                                                                                                                                                                                                        APPLICANT: LABUDA, Damian
APPLICANT: LABUDA, Damian
TITLE OF INVENTION: DETECTION OF CYPIA1, CYP3A4, CYP2D6 AND
TITLE OF INVENTION: NAT2 VARIANTS BY PCR-ALLELE-SPECIFIC OLIGONUCLEOTIDE (ASO)
TITLE OF INVENTION: ASSAY
FILE REFERENCE: 12667-17"US" FC/1d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: 530

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US89/03731

PILING DATE: 01-SEP-199

PRIOR APPLICATION NUMBER: 07/487,063

APPLICATION NUMBER: 07/487,063

PILING DATE: 02-MAR-1990

PRIOR APPLICATION NUMBER: 07/240,160

APPLICATION NUMBER: 07/240,160

PRIOR APPLICATION NUMBER: 07/240,160

PRIOR DATE: 02-SEP-1988

ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 202-737-3528
                                                        OTHER INFORMATION:
                                                                                         ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRANDEDNESS: doub
TOPOLOGY: circular
MOLECULE TYPE: genom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: WORDPERFECT 4.2
CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION: TELEPHONE: 202-628-5197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Cooper, Iver P. REGISTRATION NUMBER: 280 REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: FILING DATE: 199103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1401 GGAGATAGCCAT 1412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12 GGAGATAGCCAT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1: 15 base pairs
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                                                      cDNA for use as probes
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 Score 12;
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1;
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Length 15;
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; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-081-646-708
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; ORGANISM: Homo sapiens
US-09-081-646-133
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                                                                                                                                                                                                            APPLICANT: Zhang, Lin
APPLICANT: Zhou, Wei
APPLICANT: Zhou, Wei
TITLE OF INVENTION: Gene Expression Profiles in
TITLE OF INVENTION: Cancer Cells
FILE REFERENCE: 01107.74646;
CURRENT APPLICATION NUMBER: US/09/081,646
CURRENT FILING DATE: 1998-05-20
EARLIER APPLICATION NUMBER: 60/47,352
EARLIER FILING DATE: 1997-05-21
EARLIER FILING DATE: 1997-05-21
EARLIER FILING DATE: 1997-05-21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 215
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                                       Query Match
Best Local Similarity
Matches 12; Conserv
                                                                                                                                                                              SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 708
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 133, Application US/09081646
Patent No. 6333152
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 708, Application US/09081646 Patent No. 6333152 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: Gene Expression Profiles in No. 6333152mal and TITLE OF INVENTION: Cancer Cells FILE REFERENCE: 01107 74664 CURRENT APPLICATION NUMBER: US/09/081,646 CURRENT FILING DATE: 1998-05-20 EARLIER APPLICATION NUMBER: 60/047,352 EARLIER FILING DATE: 1997-05-21 NUMBER: 05 SEO ID NOS: 871
                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Kinzler, Kenneth APPLICANT: Vogelstein, Bert
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2324 GTGATGTCTGGT 2335
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                                                          Score 12;
Pred. No.
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); Mismatches 0;
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. 1.3e+02;
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CURRENT APPLICATION NUMBER: US/09/475,947A
CURRENT FILING DATE: 1999-12-31
NUMBER OF SEQ ID NOS: 346
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 180
LENGTH: 15
TYPE: DNA
ORGANISM: human
US-09-475-947A-180
                                                                                      RESULT 218
US-08-248-357C-11
; Sequence 11, App
; Patent No. 57732
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Best Local Similarity
Marches 12; Conserva
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US-09-081-646-835
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; LENOTH: 15
; TYPE: DNA
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-081-646-835
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Patent No. 6472154
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Patent No. 6333152
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APPLICANT: Wren, Jonathan D.
APPLICANT: Minna, John D.
TITLE OF INVENTION: Polymorphic Repeats in Human Genes
FILE REFERENCE: UTSD0667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/09/081,646
CURRENT FILING DATE: 1998-05-20
EARLIER APPLICATION NUMBER: 60/047,352
EARLIER FILING DATE: 1997-05-21
NUMBER OF SEQ ID NOS: 871
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                          GENERAL INFORMATION:
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APPLICANT: Kinzler, Kenneth
APPLICANT: Vogelstein, Bert
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APPLICANT: Zhou, Wei
APPLICANT: Luban, Jo
APPLICANT: Goff, Sto
TITLE OF INVENTION:
TITLE OF INVENTION:
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12; Conserv
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                                                                                              1, Application US/08248357C
5773225
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                       Luban, veren P. Goff, Stephen P.
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 Screening Method for the Identification of Formation
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1.3e+02;
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nes 0;
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                    MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Ver
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/282,197C
FILING DATE: 29-JUL-1994
CLASSTERS---
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APPLICATION NUMBER: US/08/248,357C
FILING DATE: 24-MAY-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 44010
TELECOMMUNICATION INFORMATION:
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                    APPLICANT: Brzezinski, Ryszard
APPLICANT: Dery, Claude V
APPLICANT: Beaulieu, Carole
TITLE OF INVENTION: Thermostable Xylanase DNA, Protein and
TITLE OF INVENTION: Methods of Use
NUMBER OF SEQUENCES: 67
                                                                                                                                     ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC COMPATIBLE
COPERATING SYSTEM: PC-DOS/MS-DOS
COPERATING SYSTEM: PC-DOS/MS-DOS
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
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FRAGMENT TYPE: N-terminal
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HYPOTHETICAL:
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nes 12; Conserv
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                CLASSIFICATION:
                                                                                                                                                                                            COUNTRY:
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1185 Avenue of the Americas
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                                                                                       Version
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thes 0;
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                                                                                                US-08-626-023-2
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Best Local Similarity 100.0%; F
Matches 12; Conservative 0;
                               Best Local Similarity Matches 12; Conserv
                                                               Query Match
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Patent No. 5955266
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/08/626
FILING DATE: 01-APR-1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Halle Ph.D., Lisa A.,
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 0726
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                                                                                                                                                                                                                                                         TELEFAX: 619/678-5099
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
LENGTH: 16 base pairs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy
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CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
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TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
                                                                                                                                              FEATURE:
                                                                                                                                                              MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: USE OF PLATELET POLYMORPHISM P1A2 TO INTEREST OF INVENTION: DIAGNOSE RISK OF THROMBOTIC DISEASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PPLICANT:
                                                                                                              NAME/KEY:
LOCATION:
                                                                                                                                                                       TYPE: STRANDEDNESS: 817
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TYPE: nucleic acid
STRANDEDNESS: both
                                                                                                                                                                                                     LENGTH: 16 base pairs
TYPE: nucleic acid
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2003 GAGCCCGGAGGC 2014
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La Jolla
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100.0%; Pred. No. 1.5e+(
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                                              Score 12; DB 1; I
; Pred. No. 1.5e+02;
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US-09-266-409-8/c
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; LOCATION:
US-08-626-023-4
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                                                             Patent No.
                                                                                                                                                                                               Sequence 8, Application US/09266409 Patent No. 6225061
                                                                                                                                                                                                                                                                                                                                                                                                Query Match 0.9%;
Best Local Similarity 100.0%;
Matches 12; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC COMPARTIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/626,023

FILING DATE: 01-APR-1996

CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

NAME: Haile Ph.D., Lisa A.,

REGISTRATION NUMBER: 38,347

REFERENCE/DOCKET NUMBER: 38,347

REFERENCE/DOCKET NUMBER: 07265/087001

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619/678-5070
                                                                                                                                                                                 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Patent No. 595526
                                                                                              APPLICANT: Becker, Thomas
APPLICANT: Sequenom, Inc.
TITLE OF INVENTION: Systems and Methods for Performing Reactions in an
TITLE OF INVENTION: Environment
CURRENT APPLICATION NUMBER: US/09/266,409
CURRENT FILING DATE: 1999-03-10
NUMBER OF SEQ ID NOS: 8
                                                                              FILE REFERENCE: Sequence listing for 24736-2023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Bray, Paul F.
APPLICANT: Goldschmidt-Clermont, Pascal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: 619/678-5099 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: 1i MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 16 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: La Jolla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                         2003 GAGCCCGGAGGC 2014
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     619/678-5099
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.00.0%; Pred. No.
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US-09-678-620-8/c
                                                                                                                                                                                                                                                                                                                                                                                            US-08-182-968A-35
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APPLICANT: Hubert K"ster
APPLICANT: Charles Cantor
TITLE OF INVENTION: Systems and Methods for Performing Reactions in
TITLE OF INVENTION: Environment
FILE REFERENCE: Sequence listing for the partner was a sequence of th
                                                                                                                                                                                                                                                                                                                           Sequence 35, Application US/08182968A Patent No. 5610054
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
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PRIOR FILING DATE: 1999-03-10
NUMBER OF SEQ ID NOS: 8
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                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: Draper
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LENGTH: 16
TYPE: DNA
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OTHER INFORMATION: Sequencing primer for exon 7 of human p53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: Description of Artificial Sequence: Synth NAME/KEY: primer bind LOCATION: (1)...(16)
OCHER INFORMATION: Sequencing primer for exon 7 of human p53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Artificial Sequence
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                                                                                                                                             APPLICANT: Draper, Kenneth G.
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: INHIBITING HEPATITIS C
TITLE OF INVENTION: VIRUS REPLICATION
                                                                        CORRESPONDENCE ADDRESS
                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity 100.0%; es 12; Conservative (
                                               ADDRESSEE:
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3: Lyon & Lyon
633 West Fifth Street
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                                                                                                                    VIRUS REPLICATION
497
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RESULT 225
US-08-182-968A-301/c
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Matches 10; Conserv
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Best Local
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 301,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/08/
FILING DATE: 13-JANUARY-19
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/882
FILING DATE: 14-MAY-1992
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,32
REFERENCE/DOCKET NUMBER: 2
                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette,
MEDIUM TYPE: storage
                                                             OPERATING SYSTEM: IBM P.C. SOFTWARE: WOR'D PERFECT 5.1 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/:
                                                                                                                                                                                                                                                                                                                         APPLICANT: Draper, Kenneth G.
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: INHIBITING HEPATITIS C
TITLE OF INVENTION: VIRUS REPLICATION
NUMBER OF SEQUENCES: 497
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COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
                            FILING DATE: 13-JANUARY-1994
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS
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CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                        ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                                                                                              COUNTRY: U.S.A. ZIP: 90071-2066
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STRANDEDNESS: sing
TOPOLOGY: linear
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OPERATING SYSTEM:
APPLICATION NUMBER: FILING DATE: 14-MA
                                                                                                                                                                                                                             STATE: California
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TELEFAX: (213)
                                                                                                                                 COMPUTER:
                                                                                                                                                                                                                                            CITY: Los Angeles
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California
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          single
MBER: 07/882,888
14-MAY-1992
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                                                             US/08/182,968A
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Pred. No. 1.
                                                                                                                Sod
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RESULT 226
US-08-182-968A-302/c
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                                                                    ; TOPOLOGY: US-08-182-968A-302
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Matches
Query Match 0.8%;
Best Local Similarity 86.7%;
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 302, Application US/08182968A Patent No. 5610054
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                     TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Draper
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 301:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                    NAME: Warburg, Richard J.
REGISTRATION.NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 20:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/08/182,968A
FILING DATE: 13-JANUARY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/882,888
FILING DATE: 14-MAY-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Draper, Kenneth G.
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: INHIBITING HEPATITIS C
TITLE OF INVENTION: VIRUS REPLICATION
NUMBER OF SEQUENCES: 497
                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS
                                                                                TYPE: nucleic acid
STRANDEDNESS: singl
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
                                                                                                                                                                                    TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                            OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity 86.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (213) 489-160
TELEFAX: (213) 955-0440
                                                                                                                                     LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2436 AATGGATAAGCCAGC 2450
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   E: Lyon & Lyon
633 West Fifth
                                                                                                                                                                                                                                                                                                                                                                                                                              SYSTEM: IBM P.C. DOS 5.0 Word Perfect 5.1
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                                                                                                    single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
 Score 11.8; DB 1; Length 15; Pred. No. 1.4e+02; O; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 11.8; DB 1
Pred. No. 1.4e+02
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Gaps
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US-08-334-847-450

Sequence 450, Application US/08334847
Patent No. 5693532
GENERAL INFORMATION:

APPLICANT:

McSwiggen, James

Kenneth

Draper, Ken Pavco, Pam Woolf, Tod

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RESULT 228
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US-08-334-847-295
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APPLICANT: WcSwigg:
APPLICANT: Draper,
APPLICANT: Pavco,
APPLICANT: Woolf,
                                                                                                                Matches
                                                                                                                                 Query Match
Best Local
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                                                                                                                                                                                                                                           TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM: IBM P.C. DOS 5.0 SOFTWARE: Word Perfect 5.1 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/334,847 FILING DATE: No. 5691532ember 4, 1994 PRIOR APPLICATION NDATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 209/032
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: METHOD AND REAGENT FOR TITLE OF INVENTION: INHIBITING RESPIRATORY TITLE OF INVENTION: SYNCYTIAL VIRUS NUMBER OF SEQUENCES: 909

CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                    TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET: Suite 4700
CITY: Los Angeles
STATE: California
                                                                                                                              Match 0.8%;
Local Similarity 66.7%;
                                                                                                                                                                                                 TOPOLOGY:
                                                                                                                                                                                                                   STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET:
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                                                                             2235 AGACTATTACAAAAA 2249
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1 AAACUAUUACACAAA 15
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633 West Fifth Street
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                                                                                                                Conservative
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Woolf, Tod
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                                                                                                                                                                                                 linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3: storage
IBM Compatible
                                                                                                                                                                                                               single
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                                                                                                                                Score 11.8; DB 1;
Pred. No. 1.4e+02;
                                                                                                                Mismatches
                                                                                                                              1.4e+02;
                                                                                                                                            Length 15;
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RESULT 229
US-08-363-240A-17
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Best Local Similarity
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                                                                                                                                                                                                               TITLE OF
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TITLE OF
TITLE OF
COMPUTER READABLE FORM:
MEDIUM .TYPE: 3.5" Diskette, 1.44 Mb
                                                                                                                                                             TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                          APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 20,
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/08/334, FILING DATE: No. 5693532ember PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                              CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM Compatible OPERATING SYSTEM: IBM P.C. SOFTWARE: Word Perfect 5.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Los Angeles
STATE: California
                                             COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE:
                                                                                                                                ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                     2310 ATACACTCATCAGAG 2324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11;
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                                   90071
                                                                                  Los Angeles
                                                                                                                                                                                                                                                                                                                            7, Application US/08363240A
5705388
                                                                                                                                                                            INVENTION: METHOD AND REAGENT FOR INVENTION: PREVENTION, INHIBITION OF INVENTION: PROGRESSION AND REGRESSION INVENTION: OF VASCULAR DISEASES
                                                               California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INVENTION:
                                                                                             Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Suite 4700
                                                                                                              633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       E: Lyon & Lyon
633 West Fifth Street
                                                U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IBM Compatible SYSTEM: IBM P.C.
                                                                                                                               Lyon & Lyon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.8%;
73.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SYNCYTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      METHOD AND REAGENT FOR INHIBITING RESPIRATORY
                                                                                                                                                               1243
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 11.8; DB 1;
Pred. No. 1.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  209/032
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                                                                                                                                                                                              AND REGRESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Patent No.
                                                                                                                                                                                                                                                                                                                         STREET:
                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY:
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Query Match 0.8%;
Best Local Similarity 66.7%;
Matches 10; Conservative
                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION UNMER: 32,327
REFERENCE/DOCKET NUMBER: 210/
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 495-1600
TELEFAX: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION DATA:
APPLICATION NUMBER: U5/08.
FILING DATE: December 23,
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM Compatible OPERATING SYSTEM: IBM P.C. SOFTWARE: Word Perfect 5.1
                                                                                                                                                                                                                                                 TELEFAX: (213, TELEX: 67-3510
                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                    TYPE: nucleic acid
STRANDEDNESS: sing
                                1454 CAGTCATCCTGTGCC 1468
1 CAGGCAUCGUGUGCC 15
                                                                                                                                                      linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    storage
                                                                                                                                                                    single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US/08/363,240A
                                                                                                                                                                                                                                        17:
                                                                3
-
                                                                                                                                                                                                                                                                                                                            210/096
                                                                                Score 11.8; DB 1;
Pred. No. 1.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DOS
                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5.0
                                                                                                  DB 1;
                                                                   Indels
                                                                  0
                                                                  Gaps
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Sequence 47, Application US/08363240A TITLE OF INVENTION: N TITLE OF INVENTION: I TITLE OF INVENTION: I TITLE OF INVENTION: C COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1 APPLICANT: Coursell James
APPLICANT: McSwiggen, James
APPLICANT: Bisgaler, Charles
Michael CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08,
FILING DATE: December 23,
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FILING DATE: ATTORNEY/AGENT INFORMATION: CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon NAME: Warburg, Richard REGISTRATION NUMBER: 32,327 REFERENCE/DOCKET NUMBER: 210/096 CITY: Los Angeles INFORMATION: 90071 5705388 California 633 West Fifth Street Suite 4700 U.S.A. PREVENTION, INHIBITION OF PROGRESSION AND REGRESSION OF VASCULAR DISEASES METHOD AND REAGENT FOR 1243 US/08/363,240A

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                                               US-08-363-240A-673
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Query Match
Best Local Similarity
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                                                                                                                                    TELEFAX: (213) 955-04-
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
                                                                                                                                                                             NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette,
MEDIUM TYPE: storage
                                                                                                                       SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 1
FILING DATE: December
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                          FILING DATE:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: METHOD AND REAGENT FOR TITLE OF INVENTION: PREVENTION, INHIBITION TITLE OF INVENTION: PROGRESSION AND REGRES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
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                                                                                                                                                     TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM Compatible OPERATING SYSTEM: IBM P.C. SOFTWARE: Word Perfect 5.1
                                                                                            TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: 633 West Fifth Street STREET: Suite 4700 CITY: Los Angeles
                                                                       STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Match 0.8%;
Local Similarity 86.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS:
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                                                                                                         ENGTH:
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: California
                                                                                       nucleic acid
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Bisgaier, Charles
Pape, Michael
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                                                            linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lyon & Lyon
                                                                                                                                                                                                                                                                                                                   December 23, 1994
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                                                                       single
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PROGRESSION AND REGR
OF VASCULAR DISEASES
0.8%;
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                                                                                                                                       673:
                                                                                                                                                                                                                  210/096
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Pred. No. 1.
Score 11.8; DB 1;
Pred. No. 1.4e+02;
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AND REGRESSION
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              Length 15;
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RESULT 233
US-08-344-820-9/c
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US-08-317-432A-5
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                                                                                                           Sequence 9, Application US/08344820 Patent No. 5717085
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                                                                                          GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
APPLICANT: Nurit
                 APPLICANT: LYTTLE, NAPPLICANT: KAUVAR, ITTITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 08/91
FILING DATE: 27-Jul-92
APPLICATION NUMBER: 08/08
FILING DATE: 1-Jul-93
ATTORNEY/AGENT INFORMATION:
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CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM: MS DOS version 6.2,
OPERATING SYSTEM: Windows version 3.11
SOPTWARE: Word for Windows version 2.0
SOPTWARE: converted to ASCI
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/317,432A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
COMPUTER: Twinhead* Slimnote-890TX
                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELECOMMUNICATION INFORMATION: TELEPHONE: 972-3-5625553
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                                                                                                                                                                                                                                                                                             Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Mark M. Friedman c/o Robert Sheinbein STREET: 2940 Birchtree lane CITY: Silver Spring
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Friedmam, Mark M.
REGISTRATION NUMBER: 33,883
REFERENCE/DOCKET NUMBER: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: 972-3-56255
TELEFAX: 972-3-5625554
                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH:
                                                                                                                                                                                                                                                     2631 AAGAAGTTCTTGTTC 2645
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                                                                                                                                                                                                                                                                                                                                                                                                                          nucleic acid
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linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4-Oct-94
LAWRENCE M.
CODON AMIDITES AND METHOD OF USING THEM
TO PRODUCE OLIGONUCLEOTIDES AND MUTAGENESIS LIBRARIES: 21
                                                                        MATTHEW H.
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                                                                                                                                                                                                                                                                                             0.8%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 1.4e+02; Live 0; Mismatches 2; Indels
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US-08-311-486C-171
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/08/344
FILING DATE: 23-NOV-1994
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: DROST, PATRICIA M.
REGISTRATION NUMBER: 25,790
REFERENCE/DOCKET NUMBER: 2550
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: (202) 822-016
TELEX: 90-4030
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Kenneth Draper
APPLICANT: Kevin Kisich
APPLICANT: Dan T. Stinchcomb
APPLICANT: James McSwiggen
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: TNF-'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                       CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: (202) 822-0168
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CITY: Washington
                                                        OPERATING SYSTEM: IBM P.C. SOFTWARE: Word Perfect 5.1
                                                                                                                                                                                                                                             CITY: Los Angeles
                                                                                                                                                                                                                                                                  STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.8%; Score 11.8; DB 1; Length 15; Local Similarity 86.7%; Pred. No. 1.4e+02; les 13; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STATE: D.C
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                       APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1881 GATGATGAAGATGAT 1895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15 GATGATGATCATGAT 1
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                                                                                                                                                                                                                          California
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633 West Fifth Street
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                                                                                                                                                                                                                                                                    Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sean Sullivan
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                                                                                                  IBM Compatible
September 23, 1994
                                                                                                                                                                                                                                                                                                                                                  1157
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                  US/08/311,486C
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                                                                               DOS 5.0
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US-08-311-486C-172
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08
APPLICATION NUMBER: 08
FILING DATE: January 1:
                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: FITTLE OF INVENTION: FITTLE OF INVENTION: TITLE OF INVENTION: TITLE OF INVENTION: TITLE OF SEQUENCES:
                                                                                                                                                                                                               COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: Storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
                                                                                                                           OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/311,486C
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEPAX: (213) 955-0440
TELEX: 67-3510
                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA: PRIOR APPLICATION DATA: PRIOR APPLICATION DATA:
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FILING DATE: January
APPLICATION NUMBER:
FILING DATE: Decembe
                                                                                           FILING DATE: Se
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                      CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1390 ССАСАСТАССТЕСАС 1404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15 base pairs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sean Sullivan
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Dan T. Stinchcomb
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                                                                                                                                                                                               IBM Compatible
                                                                                                       TUMBER: US/08/311,486C
September 23, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       January 19, 17, 1849
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DISEASES OR CONDITIONS
RELATED TO LEVELS OF
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                    A: including application A: described below: 08/008,895
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ry 19, 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        including application described below:
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Pred. No. 1.4e+02;
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January 19,

07/989,849

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                                                                                                                                                                                                                               SOPTWARE: Word Perfect 5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/(
FILING DATE: September:
CLASSIFICATION: 435
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TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
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TITLE OF INVENTION:
TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                               PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
Including
PRIOR APPLICATION DATA: described
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 193
APPLICATION NUMBER: 07/989,849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Ly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                                   FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
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                                                             NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Lyon & Lyon
STREET: .633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
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Los Angeles
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              James McSwiggen
TREATMENT OF
TVENTION: RIBOZYME TREATMENT OF
TVENTION: DISEASES OR CONDITIONS
TO LEVELS OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kevin Kisich
Dan T. Stinchcomb
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                                                                                                                                                                                                                                                      September 23, 1994
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                                                                                                                                                                                                                                                                          US/08/311,486C
                                                                                                                                                                                       including application described below:
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                                                209/166
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                                                                                                                                                                                                                                                                                                                               DOS 5.0
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TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs

TELEFAX:

(213) 955-0440

STRANDEDNESS:

nucleic acid

REFERENCE/DOCKET NUMBER: 208/149
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600

NAME: Warburg, Richard J REGISTRATION NUMBER: 32,

32,327

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RESULT 237
US-08-292-620A-242/c
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Best Local Similarity
Matches 11; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 242
                                                                       COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DI
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/29
FILING DATE: August 17, 1994
CLASSIFICATION 435
PRIOR APPLICATION DATA: includ
PRIOR APPLICATION DATA: descri
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TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                   ZIP: 90071-2066
COMPUTER READABLE FORM:
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FILING DATE: December 7, ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION:
    APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989 0000
FILING DATE: DATE: 07/989 0000
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                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                                                                                                                                                                                                                 CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                    MEDIUM TYPE:
                                                                                                                                                                                                                                                   MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
                                                                                                                                                                                                                                                                                                  COUNTRY:
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VENTION: RIBOZYME TREATMENT OF
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73.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           RELATED TO LEVELS OF
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                                                                                                                                                      US/08/292,620A
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                                                                                                                                         1994
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Pred. No. 1
                                                                                                                                                                                                       DOS 5.0
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US-08-292-620A-430/c
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                                                  Matches
                                                                 Query Match
Best Local :
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Best Local Similarity
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                                                                                                                                                                                       INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: 435

PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA: including application DATA: including application number: 08/008,895

FILING DATE: January 19, 1993

APPLICATION NUMBER: 07/98,849

FILING DATE: December 7, 1992

ATTORNEY, AGENT INFORMATION:
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                   TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STREET: Suite 4700
CITY: Los Angeles
STATE: California
                                                               Local
                                                                                                                             STRANDEDNESS:
TOPOLOGY: lir
                                                                                                                                                                                                                                                                                              NAME: Warburg, Richard J. REGISTRATION NUMBER: 32,3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: FILING DATE: August
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM CON OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
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                                                                                                                                                                        LENGTH:
1650 GCTGGCAGGGGTCTC 1664
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                                                  l Similarity
13; Conserv
                                                                                                                       H: 15 base pairs nucleic acid NDEDNESS: single LOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INVENTION: DISEASES OR CONDITIONS
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633 West Fifth Street
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Dan T. Stinchcomb
James McSwiggen
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nilarity 86.7%;
Conservative
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                                                  Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 August 17, 1994
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RELATED TO LEVELS OF INTRACELLULAR ADHESION
                                                 0.8%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 1.4e+02; tive 0; Mismatches 2; Indels
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Pred. No. 1.
                                                                                                                                                                                                                                                                                  208/149
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US-08-292-620A-462
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                                                                Matches
                                                                                             Query Match
                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/08/292,6;
FILING DATE: August 17, 1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA: including
PRIOR APPLICATION DATA: including
PRIOR APPLICATION DATA: including
PRIOR APPLICATION DATA: described
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
PRICAPION INFORMATION:
NAME: Warburg, Richard J.
REFERENCE/DOCKET NUMBER: 208/14;
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO:
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TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBERS
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ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
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TITLE OF INVENTION: RIBOZYME TREATMENT OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
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                                                             Local Similarity nes 7; Conserv
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                            2324 GTGATGTCTGGTCCT 2338
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633 West Fifth Street
                                                                                                                                                                                                                                                         (213) 955-0440
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IBM Compatible
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                                                                                                                                                                                                                           462:
                                                               6.
                                                                                                                                                                                                                                                                                                          208/149
                                                                          Score 11.8; DB 1;
Pred. No. 1.4e+02;
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                                                               Mismatches
                                                                                           Length 15;
                                                               Indels
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US-08-292-620A-534/c

Sequence 534, Application US/08292620A Patent No. 5837542

RESULT 240

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RESULT 241
US-08-292-620A-547
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                                                                                                                                                                                                                                 Patent No.
                                                                                                                                                                                                                                                                Sequence
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APPLICANT:
APPLICANT:
APPLICANT:
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SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
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PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 06
FILING DATE: January 1
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                                           APPLICANT:
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REGISTRATION NUMBER: 32,327
REFERENCE DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
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FILING DATE: December 7,
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
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TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: INTRACELLULAR ADHESION
TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
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STREET: 633 West Fifth Street
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5837542
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                                                                                          Susan Grimm
Dan T. Stinchcomb
James McSwiggen
                                                                   Sean Sullivan
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UMBER: 07/989,849
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86.7%;
3. Draper
RIBOZYME TREATMENT OF
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A: described below:
08/008,895
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ER: 208/149
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RESULT 242
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                                                                                                                                                                                                            Patent No. 5837542
                                                                                                                                                                                                                               Sequence 664, Application US/08292620A
                                                                                                                                                                                                                                                                                                                                                                                   Matches
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                                                                                                                                                                                                GENERAL INFORMATION:
        APPLICANT: James MCSw
APPLICANT: Sean Sulli
APPLICANT: Sean Sulli
APPLICANT: Kenneth G.
TITLE OF INVENTION: F
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: Btorage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
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                                                                                                                                                               APPLICANT:
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PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/;
FILING DATE: August 17, 19;
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CORRESPONDENCE ADDRESS:
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nes 7; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Warburg, Richard REGISTRATION NUMBER: 32
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FILING DATE: Januar
APPLICATION NUMBER:
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STREET: 633 West Fifth Street
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                                                                                                                                            Dan T. Stinchcon
James McSwiggen
                                                                                                           Kenneth G.
                                                                                                                              Sean Sullivan
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ADDRESS:
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August 17, 1994
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                                                                                                                                                               Stinchcomb
                                         G. Draper
RIBOZYME TREATMENT OF
DISEASES OR CONDITIONS
RELATED TO LEVELS OF
INTRACELLULAR ADHESION
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                             MOLECULE-1 (I-CAM-1)
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                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                Score 11.8; DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                   .4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                Length 15;
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Lyon & Lyon

633 West Fifth Street

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                                                                                                                                                                                                                                                                                                                                                Patent No.
                                                                                                                                                            APPLICANT: Kenneth (
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08
FILING DATE: January
APPLICATION NUMBER: 07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 200
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIF: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: December 7, ATTORNEY/AGENT INFORMATION:
                                                                                                                                 CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                 APPLICANT:
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COMPUTER READABLE FORM
                                                                                                                                                   NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                             PPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: (213) 955-0440
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OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE:
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                                                                                                                 ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1650 GCTGGCAGGGTCTC 1664
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nucleic acid
DEDNESS: single
                                               Los Angeles
: California
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California
                                                                                                                                                              T: Kenneth G. Draper
INVENTION: RIBOZYME TREATMENT OF
INVENTION: DISEASES OR CONDITIONS
INVENTION: RELATED TO LEVELS OF
INVENTION: INTRACELLULAR ADHESION
INVENTION: MOLECULE-1 (I-CAM-1)
                                                                                                                                                                                                                                                                                                                                                               , Application US/08292620A
                                                                                   Suite 4700
                                                                                               3: Lyon & Lyon
633 West Fifth Street
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                                                                                                                                                                                                                                                                            Susan Grimm
Dan T. Stinchcomb
James McSwiggen
                                                                                                                                                                                                                                                             Sean Sullivan
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UMBER: 07/989,849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.8%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 1.4e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 25, Application US/08657884 Patent No. 5858981
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: WILSON, WARY J.
REFERENCE/DOCKET NUMBER: 555-
REFERENCE/DOCKET NUMBER: 555-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816.44000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08
FILING DATE: January 1
APPLICATION NUMBER: 07
                                                                                                                                        SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/657,884
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LENGTH: 15 base pairs
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ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                    COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: PARK, JONG-GU
TITLE OF INVENTION: METHODS OF INHIBITING PHAGOCYTOSIS
                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: SCHREIBER, ALAN D. APPLICANT: PARK, JONG-GU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
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PRIOR APPLICATION DATA:
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MEDIUM TYPE: store
COMPUTER: IBM Comp
OPERATING SYSTEM:
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 20
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                                                                                                                                                                                                                                                                                      COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                            STATE:
                                                                                                                                                                                                                                                                                                                         CITY: ARLINGTON
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1100 NORTH GLEBE ROAD, 8TH FLOOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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JMBER: 07/989,
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86.7%;
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                                                                                                                                                                               Release #1.0, Version #1.30
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described below:
08/008,895
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                                        555-46
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Pred. No. 1
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RESULT 246
US-08-774-306A-35
; Sequence 35, Application US/08774306A
; Patent No. 5869253
. GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; MOLECULE TYPE: DNA (genomic) US-08-657-884-25
                                                                                                                                                                                                                                                                                                                                       TELEFAX: (703) 01. 2: INFORMATION FOR SEQ ID NO: 2: SEQUENCE CHARACTERISTICS: 1.ENGTH: 15 base pairs
                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 13; Conserva
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Matches 13; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: 55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: SCHREIBER, ALAN D.
APPLICANT: PARK, JONG-GU
TITLE OF INVENTION: METHODS OF INHIBITING PHAGOCYTOSIS
NUMBER OF SEQUENCES: 31
                                                                                                                                                                                                                                                                                        MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/00
FILING DATE: 07-JUN-1996
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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TOPOLOGY: lir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 32,955
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CITY: ARLINGTON
STATE: VIRGINIA
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TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: WILSON, MARY J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
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                                                                                                                                                                         1334 CTGCATGGTTGACAG 1348
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Y: U.S.A.
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                                                                                                                                                                                                                                                                                                                                                                                                       (703) 816-4100
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1100 NORTH GLEBE ROAD, 8TH FLOOR
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                                                                                                                                                                                                                        0.8%; Score 11.8; DB 1; Length 15; 86.7%; Pred. No. 1.4e+02;
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                                                                                                                                                                                                         Mismatches
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US-08-774-306A-301/c
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                                                                                                                                                                                                                                                                    Patent No. 5869222
Patent No. 5869222
PAREAL INFORMATION:
                                                                                                                                                                                                                                                                                                   Sequence 301, Application US/08774306A Patent No. 5869253
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Best Local S
                                                                                                                                                                                                                                                                  GENERAL INFOR
APPLICANT:
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APPLICATION NUMBER: 08/182,968
FILING DATE: January 13, 1994
APPLICATION NUMBER: 07/882,888
FILING DATE: May 14, 1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                            TITLE OF INVENTION: ITTLE OF INVENTION: TITLE OF INVENTION: NUMBER OF SEQUENCES:
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette,
MEDIUM TYPE: storage
                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OFERATING SYSTEM: IBM P.C. DOS 5.0 SOFTWARE: Word Perfect 5.1 CURRENT APPLICATION DATA:
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COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
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TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: INHIBITING HEPATITIS C
TITLE OF INVENTION: VIRUS REPLICATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JLECUPAL: 121-
TELEPHONE: 121-
TENY: (213)
                                                     COUNTRY: U.S.A. ZIP: 90071-2066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 223/227
                                                                                          STATE:
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OPERATING SYSTEM:
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STATE: California
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STREET: 633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Match 0.8%;
Local Similarity 66.7%;
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Pred. No. 1.
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US-08-774-306A-302/c
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APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF
                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 08/11
FILING DATE: January 13/
APPLICATION NUMBER: 07/8
FILING DATE: May 14, 199
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                  APPLICATION NUMBER: US/08/774,306A FILING DATE: December 26, 1996 PRIOR APPLICATION DATA:
                                                                                                                                                                                                         SOFTWARE: Word Perfect 5.1 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: Decembe PRIOR APPLICATION DATA:
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CURRENT APPLICATION DATA:
                                                                FILING DATE: May 14, 1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION:
                                                                                                                                                                                                                               COMPUTER: IBM COMPUTER: OPERATING SYSTEM:
                                NAME: Warburg, Richard J. REGISTRATION NUMBER: 32,3
                                                                                                  APPLICATION NUMBER: 08/182,968 FILING DATE: January 13, 1994 APPLICATION NUMBER: 07/882,888
                                                                                                                                                                                                                                                                                                                                                                 CITY: Los Angeles
STATE: California
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REFERENCE/DOCKET NUMBER: 223/227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Warburg, Richard J. REGISTRATION NUMBER: 32,3
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   REFERENCE/DOCKET NUMBER: 22:
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Similarity 86.7%;
13; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                 3: Lyon & Lyon
633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Draper, Kenneth G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (213) 955-0440
                                                                                                                                                                                                                                                         IBM Compatible
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IUMBER: 07/882,888
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INFORMATION:
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Y 13, 1994
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                223/227
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Best Local Similarity
Matches 13; Conserv
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 Matches
          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/585,6
FILING DATE: January 16, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/000,951
FILING DATE: July 7, 1995
ATTORNEY/AGENT INFORMATION:
ANDRE. MERCHANGE
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                                                                                                                                                  INFORMATION FOR SEQ ID NO:
                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
                                                                                                                                                                                           NAME: Warburg, Richard REGISTRATION NUMBER: 32,327 REFERENCE/DOCKET NUMBER: 21.
TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
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TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Jarvis, The APPLICANT: McSwiggen,
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                                                                                                                                                   TELEFAX: (-1.5)
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TELEFAX: 67-3510
                                                                                                                                                               TELEPHONE: (213) 955-0440
                                                                                    TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: Suite 4700
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                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: FastSEQ Version 1.5
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o. 5877021
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 13;
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: California
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633 West Fifth Street
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 Conservative
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               0.8%;
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                                                                                                                                                                                                                                                                                                                                                                                        IBM P.C.
                                                                                                                                                                                                                                                                                                 60/000,951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              James
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Pred. No. 1
             Score 11.8; DB 1;
Pred. No. 1.4e+02;
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 Mismatches
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                             Length 15;
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RESULT 250
US-08-585-684B-638/c
; Sequence 638, Application US/08585684B
------ No. 5877021
                                                                                                                                  US-08-985-684B-639/c
; Sequence 639, Application US/08585684B
; Patent No. 5877021
; GENERAL INFORMATION:
                                                                                                                                                                                                                            RESULT 251
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                                                                                                                                                                                                                                                                                                                                                            Query Match 0.8%; Score 11.8; DB 1; Length 15; Best Local Similarity 86.7%; Pred. No. 1.4e+02; Matches 13; Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (213) 955-044
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: McSwiggen, James
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
NUMBER OF SEQUENCES: 2751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Warburg, Richard
REGISTATION NUMBER: 32,327
REFERENCION NUMBER: 21
REFERENCION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/08/585,684B
FILING DATE: January 16, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/000,951
FILING DATE: July 7, 1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM: IBM P.C. DO:
SOFTWARE: FASTSEQ VERSION 1.5
CURRENT APPLICATION DATA:
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TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET: Suite 4700
CITY: Los Angeles
STATE: California
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                                                                                                                                                                                                                                                                                                                         1881 GATGATGAAGATGAT 1895
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633 West Fifth Street
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IBM Compatible
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US-08-585-684B-640/c
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                                                                                                                                                                                                                                                                                                                                                                                                                   sequence 640, Application US/08585684B
Patent No. 5877021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 0.8%;
Best Local Similarity 86.7%;
                                                                                                                                                                                                                                                               APPLICANT: Stinchcomb, Daniel APPLICANT: Jarvis, Thale APPLICANT: McSwiggen, James TITLE OF INVENTION: METHOD AN TITLE OF INVENTION: AND REVER NUMBER OF SEQUENCES: 2751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 60/000,951
FILING DATE: July 7, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO:
                            COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette,
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
COMPUTER: IBM COMPATIBLE FORM
OPERATING SYSTEM: IBM P.C. I
OPERATING SYSTEM: IBM P.C. DOS 5.0 SOFTWARE: FastSEQ Version 1.5 CURRENT APPLICATION DATA:
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ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/08/585,684B FILING DATE: January 16, 1996 PRIOR APPLICATION DATA:
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OPERATING SYSTEM: IBM P. C. DOS
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
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                                                                                                                                                                            STREET: 633 West
STREET: Suite 470
CITY: Los Angeles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE: (213) 955-0440
                                                                                                                         ZIP: 9007:
                                                                                                                                            COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: 633 West Fifth Street
STREET: Suite 4700
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STATE: California
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                                                                                                                                                               California
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                                                                                                                                            U.S.A.
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                                                                                                                                                                                                                                                                                     METHOD AND REAGENT FOR THE INDUCTION OF GRAFT TOLERANCE AND REVERSAL OF IMMUNE RESPONSES
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Pred. No. 1.
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APPLICATION NUMBER:

US/08/585,684B

FILING DATE:

January 16, 1996

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RESULT 253
US-08-585-684B-1246
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 0.8%;
Best Local Similarity 86.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                    COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM PC. DOS:
SOFTWARE: FastSEQ Vergion 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/585,60
FILING DATE: January 16, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/000,951
FILING DATE: UJly 7, 1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (213) 955-044
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                           TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Stinchcomb, Da
APPLICANT: Jarvis, Thale
APPLICANT: McSwiggen, Jar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 60/000 FILING DATE: July 7, 1995 ATTORNEY/AGENT INFORMATION:
                    SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
                                                                                                                     NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 211
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
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                                                                                                  TELEPHONE: (213) 489-16
TELEFAX: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
TYPE: nucleic acid
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; STRANDEDNESS: single ; TOPOLOGY: linear US-08-585-684B-1246
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TELEX: 67-3510
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 2
SEQUENCE CHARACTERISTICS: 2
FENGTH: 15 base pairs
TENGTH: 15 base pairs
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; Sequence 2267, Application US/08585684B
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                                                                Matches
                                                                               Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FASKSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/585,684B
FILING DATE: January 16, 1996
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thate
APPLICANT: McSwiggen, James
TITLE OF INVENTION: METHOD AND REA
TITLE OF INVENTION: AND REVERSAL O
NUMBER OF SEQUENCES: 2751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                         NAME: Warburg, Richard
REGISTON NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 60/00 FILING DATE: July 7, 1995 ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
                                                              Local Similarity
nes 13; Conserv
                                                                                                                                                                                                                                              TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity 60.0
                                                                                                                                                             TYPE: nucleic acid
STRANDEDNESS: single
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                              2398 GTGGAGGAACTTTT 2412
15 GTGGAGGTACTGTTT 1
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                                                                Conservative
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Pred. No. 1.
                                                                             Score 11.8; DB 1;
Pred. No. 1.4e+02;
                                                                 Mismatches
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                                                                                              DB 1;
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                                                                                              Length 15;
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RESULT 255 US-09-064-156A-35 ; Sequence 35, Application US/09064156A

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US-09-064-156A-301/c
; Sequence 301, Application US/09064156A
; Patent No. 6132966
                                                                                                                                                                                                                                                                      RESULT 256
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Throwal INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                  Matches 10;
                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 66.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DO
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/064
FILING DATE: April 21, 1998
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                   APPLICANT: Draper, Kenneth G.
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: INHIBITING HEPATITIS C
TITLE OF INVENTION: VIRUS REPLICATION
NUMBER OF SEQUENCES: 498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: May 14, 1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                      CORRESPONDENCE ADDRESS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                            STREET: 633 West Fifth Street
STREET: 64700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Warburg, Richard J. REGISTRATION NUMBER: 32,3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: January 13, 1994 APPLICATION NUMBER: 07/882,888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 08/774,306
FILING DATE: December 26, 1996
APPLICATION NUMBER: 08/182,968
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STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AUDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                             1946 GGCCTCTCTATGTCA 1960
                                                                                                                                                                                                 INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nucleic acid
Los Angeles
California
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VENTION: METHOD AND REAGENT FOR IVENTION: INHIBITING HEPATITIS C
VENTION: VIRUS REPLICATION
                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        single
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Pred. No. 1
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RESULT 257
US-09-064-156A-302/c
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Hest Local Similarity 86.7%;
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 302, Application US/09064156A Patent No. 6132966
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
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APPLICATION NUMBER: US/09/064,156A FILING DATE: April 21, 1998 PRIOR APPLICATION DATA: APPLICATION NUMBER: 08/774,306 FILING DATE: December 26, 1996 APPLICATION NUMBER: 08/182,968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 08/182,968
FILING DATE: January 13, 1994
APPLICATION NUMBER: 07/882,888
FILING DATE: May 14, 1992
ATTORNEY/ACENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/00
FILING DATE: April 21, 1998
PRIOR APPLICATION DATA:
                                                                                                                     OPERATING SYSTEM: IBM P.C. SOPTWARE: Word Perfect 5.1 CURRENT APPLICATION DATA:
                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Draper, Kenneth G.
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: INHIBITING HEPATITIS C
TITLE OF INVENTION: VIRUS REPLICATION
                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
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COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
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                                                                                                                                                                                                                                                                                                    ADDRESSEB: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
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OPERATING SYSTEM: IBM P.C.
SOFTWARE: Word Perfect 5.1
                                                                                                                                                                                                                                                                 COUNTRY: U.S.A. ZIP: 90071-2066
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TOPOLOGY: linear
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REFERENCE/DOCKET NUMBER: 234/083
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                                                                                                                                                                               IBM Compatible
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Pred. No. 1.4e+02;
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US-09-071-845-242/c
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Best Local Similarity 86.7%;
Matches 13; Conservative
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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APPLICANT: Susan
                                                                                                                                                        CLASSIFICATION:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                              SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: RISOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: INTRACELLULAR ADHESION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
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APPLICANT: James McSwiggen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: May 14, 199 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS
                               FILING DATE: December 7, ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES:
                                                                APPLICATION NUMBER: US/08/292,620 FILING DATE: August 17, 1994 APPLICATION NUMBER: 08/008,895 FILING DATE: January 19, 1993 APPLICATION NUMBER: 07/989,849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 234/083
                                                                                                                                                                                             APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                 OPERATING SYSTEM:
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NAME: Warburg, Richard REGISTRATION NUMBER: 32
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California
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6132967
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633 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                             Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sean Sullivan
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UMBER: 07/882,888
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                                                                                                                                                                                                                                                                 IBM P.C. DOS 5.0
                                                                                                                                                                                                             US/09/071,845
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Pred. No. 1.
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best Local Similarity 86.7%;
Matches 13; Conservative
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                                                                                                        APPLICATION NUMBER: US/08/292,620
APPLICATION NUMBER: 08/008,895
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/ACENT INFORMATION:
NAME: WARDURY, Richard J.
REGISTRATION NUMBER: 32,327
TORNEY/ACENT NUMBER: 32,327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Kenneth G. I
TITLE OF INVENTION: RIF
TITLE OF INVENTION: REF
TITLE OF INVENTION: REF
TITLE OF INVENTION: NO
                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                 REFERENCE/DOCKET NUMBER: 20 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                           CLASSIFICATION:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM: IBM P.C. SOFTWARE: Word Perfect 5.1 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION
                  TELEFAX: 1211
TELEFAX: 67-3510
                                TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
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TELEX: 67-3510
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linear
                                                                                                                                                                                                                                                                                                                                                                                                   IBM Compatible
                                                                    (213) 489-1600
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RIBOZYME TREATMENT OF
DISEASES OR CONDITIONS
RELATED TO LEVELS OF
INTRACELLULAR ADHESION
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE-1 (I-CAM-1)
                                                                                                                                                                                                                                                                                                                                                                                    IBM P.C. DOS 5.0
                                                                                                                                                                                                                                                                                                                                  US/09/071,845
                                                                                                                                                                                                                                                             US/08/292,620
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                                                US-09-071-845-462
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 462, Application US/09071845 Patent No. 6132967
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 0.8%;
Best Local Similarity 86.7%;
Matches 13; Conservative
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                                                                                                                                                TELEFAX: (213) 955-04-
TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/292,62)
FILING DATE: August 17, 1994
APPLICATION NUMBER: 08/008,995
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                 SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                 TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: INTRACELLULAR ADHSSION
TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                                                                  TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                             NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208/149
                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OPERATING SYSTEM:
SOFTWARE: Word Pe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                              STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 90071-2066
                                                                  TOPOLOGY:
                                                                                                               LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1650 GCTGGCAGGGGTCTC 1664
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                                                                                          : 15 base pairs
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California
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Sean Sullivan
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Dan T. Stin
                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IBM Compatible
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0.8%;
                                                                                                                                                                                                                                                                                                                                                                                       US/08/292,620
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                                                                                                                                                    462:
Score 11.8; DB 1;
Pred. No. 1.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 11.8; DB 1
Pred. No. 1.4e+02
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             Length 15;
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US-09-071-845-534
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US-09-071-845-534/c
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                                                                               Query Match
Best Local (
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                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM COMPATIBLE
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,845
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                               NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 20.
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: December 7, 1992 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                  TELEFAX: (2-
TELEFAX: 67-3510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          UMBER OF SEQUENCES:
                                                       0.8%;
Local Similarity 86.7%;
1es 13; Conservation
                                                                                                                                                                                                                                                   TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/08/29,620 FILING DATE: August 17, 1994 APPLICATION NUMBER: 08/008,895 FILING DATE: January 19, 193 APPLICATION NUMBER: 07/989,849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: U.S.A. ZIP: 90071-2066
                                                                                                                                                               STRANDEDNESS:
                                                                                                                                                                              LENGTH: 15 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Los Angeles
                           1650 GCTGGCAGGGGTCTC 1664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2324 GTGATGTCTGGTCCT 2338
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      California
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WENTION: RIBOZYME TREATMENT OF VENTION: RIBOZYME TREATMENT OF VENTION: DISBASES OR CONDITIONS VENTION: RELATED TO LEVELS OF VENTION: INTRACELLULAR ADHESION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        James McSwiggen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dan T.
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                                                                                                                                                 linear
                                                                                                                                                                                                                                                                                   (213) 489-1600
                                                                                                                                                               single
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                                                                                             Score 11.8; DB 1; Length 15;
                                                                Pred. No. 1.4
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                                                          1.4e+02;
2;
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                                                                Indels
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RESULT 263
US-09-071-845-664/c
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INFORMATION FOR SEQ ID NO: 54
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
TYPE: nucleic single
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                                                                                                                                                                                                              Query Match
Best Local Similarity 45...
7; Conservative
                                                    Sequence 664, Application US/09071845
Patent No. 6132967
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 547
APPLICANT: Susan APPLICANT: Dan T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/08/292,620
FILING DATE: August 17, 1994
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Sean Sullivan
APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: INTRACELLULAR ADHESION
TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STREET: 633 West Fifth Street
STREET: 630 West Fifth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                               STRANDEDNESS:
TOPOLOGY: li
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM CON OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: U.S.A. ZIP: 90071-2066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Los Angeles
STATE: California
                                                                                                                                                                                                     2324 GTGATGTCTGGTCCT 2338
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Susan Grimm
Dan T. Stinchcomb
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Susan Grimm
                                                                                                                                                                                                                                                                                                                                 linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IBM Compatible
SYSTEM: IBM P.C. DOS 5.0
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                                                                                                                                                                                                                                                         0.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                       547:
                                                                                                                                                                                                                                                         Score 11.8; DB 1; Length 15; Pred. No. 1.4e+02;
                                                                                                                                                                                                                                          Mismatches
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US-09-071-845-730/c
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                                                                                                                                                                                                  Patent No.
                                                                                                                                                                                                    Sequence 730, Application US/09071845 Patent No. 6132967
                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 0.8%;
Best Local Similarity 86.7%;
APPLICANT: Susan Grimm
APPLICANT: Dan T. Stinchcomb
APPLICANT: James McSwiggen
APPLICANT: Sean Sullivan
APPLICANT: Sean Sullivan
APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISABSES OR CONDITIONS
TITLE OF INVENTION: INTRACELLULAR ADHESION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/292,62
FILING DATE: August 17, 1994
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY AGENT INFORMATION:
                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Sean Sull
APPLICANT: Kenneth G
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Warburg, Richard J. REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: (213) 955-0440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/09/071,845
FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM CON OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: U.S.A. ZIP: 90071-2066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                  1650 GCTGGCAGGGGTCTC 1664
                                                                                                                                                                                                                                                                                                                          15 GCTGGTAGAGGTCTC 1
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                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              James McSwiggen
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Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                       .4e+02;
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TITLE OF INVENTION:

MOLECULE-1 (I-CAM-1)

OF SEQUENCES:

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RESULT 265
US-09-038-073-87/c
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                                                                                                                                                                                                                                                          Sequence 87, Application Patent No. 6194150 GENERAL INFORMATION:
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Best Local &
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base -->
Type-
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
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APPLICATION NUMBER: US/08/292,62
FILING DATE: August 17, 1994
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                            APPLICANT: Stinchcomb,
APPLICANT: Jarvis, Thal
APPLICANT: McSwiggen,
APPLICANT: MCSwiggen,
TITLE OF INVENTION: NET
TITLE OF INVENTION: ANI
TITLE OF INVENTION: ANI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                           CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION DATA:
                                                                                                                                                NUMBER OF SEQUENCES:
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                                              CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                             / Match 0.8%;
Local Similarity 86.7%;
nes 13; Conservative
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TOPOLOGY: li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Warburg, Richard J. REGISTRATION NUMBER: 32,3 REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: FILING DATE: CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
                                                                                STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEPHONE: (213) 489-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM: IBM P.C. SOFTWARE: Word Perfect 5.1
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                                                                                                               ADDRESSEE:
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READABLE FORM
                                                                                                                                                                                                                                                                                            Application US/09038073
                                                                             EE: Lyon & Lyon
633 West Fifth Street
Suite 4700
                                                                                                                                                                                                                             Jarvis, Thale
                              U.S.A.
                                                                                                                                                                                                                                            Stinchcomb, Daniel T.
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                                                                                                                                                             METHOD AND REAGENT FOR THE INDUCTION OF GRAFT TOLERANCE AND REVERSAL OF IMMUNE RESPO
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Pred. No. 1.4e+02;
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RESULT 266
US-09-038-073-638/c
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INFORMATION FOR SEQ ID NO: 8
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
TYPE: nucleic acid
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                                                                                                                                  ZIP: 90071

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/038,073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: Stinchcomb, Da
APPLICANT: Jarvis, Thale
APPLICANT: McSwiggen, Jan
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CURRENT APPLICATION DATA:

APPLICATION NIMBER
                                ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
                                                                                   FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION:
TITLE OF INVENTION:
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NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 21
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION: TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                           ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDIUM TYPE:
MEDIUM TYPE:
COMPUTER: IBI
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Local Similarity 86.7%;
hes 13; Conservative
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TELEX: 67-3510
TELEX: 67-3510
TELEX: 67-3510
TELEX: 67-3510
TELEX: 67-3510
TELEX: 67-3510
NAME: Warburg, Richard REGISTRATION NUMBER: 32 REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                          AND REVERSAL OF IMMUNE RESPONSES
                                                                                                                                                                                                                                                                                                                                                                                                                                                        METHOD AND REAGENT FOR THE INDUCTION OF GRAFT TOLERANCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            James
                                                                                   08/585,684
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              32,327
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 218/078
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Pred. No. 1.
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                                                                                                                       INFORMATION FOR SEQ ID NO: (
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                        Query Match.
Best Local Similarity
Matches 13; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Patent No. 6194150
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: FastSEQ Version 1.5 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: MCSwiggen, James
TITLE OF INVENTION: METHOD AND R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
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TELEFAX: (7-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                             TELEPHONE: (213) 489-16
TELEFAX: (213) 955-0440
TELEX: 67-3510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM:
SOFTWARE: FastSE(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
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TOPOLOGY: lir
                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: Los Angeles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER:
1880 AGATGATGAAGATGA 1894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1881 GATGATGAAGATGAT 1895
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(213) 955-0440
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                                          Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      METHOD AND REAGENT FOR THE INDUCTION OF GRAFT TOLERANCE AND REVERSAL OF IMMUNE RESPONSES 2751
                                      0.8%; Score 11.8; DB 1;
86.7%; Pred. No. 1.4e+02;
htive 0; Mismatches 2;
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                                                                       Length 15;
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                                                                                                                                                                                              RESULT 269
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                                                                                                                       Sequence 1246, Applic Patent No. 6194150 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 640,
                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 6
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.
SOFTWARE: Fast-SEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/038,073
                  APPLICANT: Stinchcomb, Daniel T.
APPLICANT: Jarvis, Thale
APPLICANT: McSwiggen, James
TITLE OF INVENTION: METHOD AND R
TITLE OF INVENTION: AND REVERSAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
NAME: Watburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/078
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
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TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
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CITY: Los Angeles
STATE: California
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                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY:
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                                                                                                                                                                                                                                                                       1880 AGATGATGAAGATGA 1894
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6194150
                                                                                                                                                                                                                                                                                                                                                                                                                                            nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (213) 955-0440
                                                                                                                                                             Application US/09038073
                                                                                                                                                                                                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                             linear
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                                                                                                                                                                                                                                                                                                                                       0.8%;
86.7%;
METHOD AND REAGENT FOR THE INDUCTION OF GRAFT TOLERANCE AND REVERSAL OF IMMUNE RESPONSES 2751
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                                                                                                                                                                                                                                                                                                                       <u>,</u>
                                                                                                                                                                                                                                                                                                                                         Score 11.8; DB 1;
Pred. No. 1.4e+02;
                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                        Length 15;
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CORRESPONDENCE ADDRESS:

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INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                 Patent No.
                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                          APPLICANT: Stinchcomb, Danie APPLICANT: Jarvis, Thale APPLICANT: McSwiggen, James
                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Warburg, Richard
REGISTRATION NUMBER: 32,7
REFERENCE/DOCKET NUMBER: 211
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/038
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MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: Storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES:
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                                                                                                                                                                                               STREET:
 COMPUTER: IBM COMPACIBLE
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOPTWARE: FASTSEQ VERSION 1.5
SOPTWARE TAPLICATION DATA:
URRENT APPLICATION DATA:
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STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: 100 200-1
                                                                                                                                                                CITY: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity 60.
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                                                                                                                                               COUNTRY:
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5. 6194150
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: California
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633 West Fifth Street
Suite 4700
                                                                                                                                                 U.S.A.
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                                                                                                                                                                                                                                                                               METHOD AND REAGENT FOR THE INDUCTION OF GRAFT TOLERANCE AND REVERSAL OF IMMUNE RESPONSES
                                                                                                                                                                                                                                                                 2751
US/09/038,073
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Pred. No. 1
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RESULT 271
US-09-158-980-25/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: SCHREIBER, AL
APPLICANT: PARK, JONG-GU
                                                                                                TELEFAX: (703) 816-41
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEX: 67-3510
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                   MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                             SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: U.S.A.
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: METHODS OF INHIBITING PHAGOCYTOSIS NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 216
TELECOMMUNICATION INFORMATION:
TRIEPHONE: (213) 489-1600
 MOLECULE TYPE:
                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/657,884
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                 TELECOMMUNICATION INFORMATION:
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                                                                                                            TELEPHONE: (703)
          TYPE: STRANDEDNESS: 811
                                                                                                                                                                  NAME: WILSON, MARY J.
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 555-46
                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/09/158,980 FILING DATE: CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: NIXON & VANDERHYE P.C. STREET: 1100 NORTH GLEBE ROAD, 8TH FLOOR CITY: ARLINGTON STATE: VIRGINIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   y Match 0.8%;
Local Similarity 86.7%;
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                                               nucleic acid
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linear
                                                                                                                                   (703)
DNA (genomic)
                             single
                                                                                            3) b1.
, 816-4100
, NO: 25:
                                                                                                                                 816-4000
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Pred. No. 1.
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Similarity

Length 15;

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MOLECULE TYPE:
US-09-158-980-29
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                                                                                     GENERAL INFORMATION:
                                                                                                       Sequence 26, Application US/09081646 Patent No. 6333152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 29, Application US/09158980 Patent No. 6242427
                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
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Best Local
                             APPLICANT: Kinzler, Kenneth
APPLICANT: Vogelstein, Bert
APPLICANT: Zhang, Lin
APPLICANT: Zhou, Wei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: (703)-816-4100
INFORMATION FOR SEQ ID NO: 29:
TITLE OF INVENTION: Gene Expression Profiles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
NAME: WILSON, MARY J.
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 55
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Release #1.0, Version CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/158,980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: SCHREIBER, ALAN D. APPLICANT: PARK, JONG-GU
TITLE OF INVENTION: METHODS C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                       STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
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                                                                                                                                                                                                                        1334 CTGCATGGTTGACAG 1348
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nucleic acid
DEDNESS: single
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Pred. No. 1.
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Pred. No. 1.4e+02;
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              No. 6333152mal and
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; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-081-646-26
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; ORGANISM: Homo sapiens
US-09-081-646-331
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US-09-081-646-331
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Best Local Similarity 86.7%;
Matches 13; Conservative
                                                                                                                                                                                                                                                                                    Sequence 418, Application US/09081646 Patent No. 6333152
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Best Local
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APPLICANT: Vogelstein, Bert
APPLICANT: Zhang, Lin
APPLICANT: Zhang, Lin
APPLICANT: Zhou, Wei
TITLE OF INVENTION: Gene Expression Profiles in No. 6333152mal and
TITLE OF INVENTION: Cancer Cells
FILE REPERENCE: 01107.74664
CURRENT APPLICATION NUMBER: US/09/081,646
CURRENT APPLICATION NUMBER: 05-20
EARLIER APPLICATION NUMBER: 60/047,352
EARLIER FILING DATE: 1998-05-21
EARLIER FILING DATE: 1997-05-21
NUMBER: 07-05-21
NUMBER: 07-05-21
NUMBER: 07-05-21
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TITLE OF INVENTION: Gene Expression Profiles
TITLE OF INVENTION: Cancer Cells
FILE REFERENCE: 01107.74664
CURRENT APPLICATION NUMBER: US/09/081,646
CURRENT FILING DATE: 1998-05-20
EARLIER APPLICATION NUMBER: 60/047,352
EARLIER FILING DATE: 1997-05-21
EARLIER FILING DATE: 1997-05-21
MUMBER OF SEO ID NOS: 871
                                                                                                                                                                            APPLICANT: Kinzler, Kenneth
APPLICANT: Vogelstein, Bert
APPLICANT: Zhang, Lin
APPLICANT: Zhou, Wei
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CURRENT APPLICATION NUMBER: US/09/081,646
CURRENT FILING DATE: 1998-05-20
EARLIER APPLICATION NUMBER: 60/047,352
EARLIER FILING DATE: 1997-05-21
NUMBER OF SEQ ID NOS: 871
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Pred. No. 1.4e+02;
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Pred. No. 1.
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; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-081-646-445
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                                                                                                     SEQ ID NO 1
LENGTH: 15
TYPE: DNA
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Best Local Similarity 86.7%;
Matches 13; Conservative
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Best Local Similarity 86.7%;
Matches 13; Conservative
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Patent No. 6416987
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Patent No. 6333152
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APPLICANT: Vogelstein, Bert
APPLICANT: Vogelstein, Bert
APPLICANT: Zhang, Lin
APPLICANT: Zhang, Lin
APPLICANT: Zhou, Wei
TITLE OF INVENTION: Gene Expression Profiles in No. 6333152mal and
TITLE OF INVENTION: Cancer Cells
FILE REFERENCE: 01107,74664
CURRENT APPLICATION NUMBER: US/09/081,646
CURRENT FILING DATE: 1998-05-20
EARLIER APPLICATION NUMBER: 60/047,352
BARLIER FILING DATE: 1997-05-21
NUMBER: 0F SEQ. ID NOS: 871
                                                                                                                                                                                    APPLICANT: Liu-Chen, Xinyue
TITLE OF INVENTION: Mutants of Thymidylate Synthase
FILE REFERENCE: D5978
CURRENT APPLICATION NUMBER: US/09/367,007C
CURRENT FILING DATE: 1999-10-15
PRIOR APPLICATION NUMBER: PCT/US98/02145
PRIOR FILING DATE: 1998-01-03
                                                                                                                                                                                                                                                                                                               APPLICANT: Bertino, Joseph R. APPLICANT: Banerjee, Debabra APPLICANT: Tong, Youzhi APPLICANT: Liu-Chen, Xinyue
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ORGANISM: Homo sapiens
FEATURE:

OTHER INFORMATION: Nucleotide sequence in the 5' coding region of OTHER INFORMATION: human recombinants cDNA of thymidylate synthase OTHER INFORMATION: (TS) gene in pET-17(bhTS) vector.
                                                                           ORGANISM: artificial sequence
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Tong, Youzhi
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Pred. No. 1.
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Pred. No. 1.
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; LENGTH: 15
; TYPE: DNA
; ORGANISM: human
US-09-475-947A-69
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US-09-475-947A-69/c
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US-08-826-134-32/c
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Best Local S
Matches 13
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CURRENT APPLICATION NUMBER: US/09/475,947A
CURRENT FILING DATE: 1999-12-31
NUMBER OF SEQ ID NOS: 346
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 69
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Best Local Similarity 86.7%;
Matches 13; Conservative
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SEQ ID NO 32
LENGTH: 15
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APPLICANT: Peles, Ellor
APPLICANT: Peles, Ellor
TITLE OF INVENTION: CASPR/190, A FUNCTIONAL LIGAND FOR RPTP-BETA AND THE
TITLE OF INVENTION: AXONAL CELL RECOGNITION MOLECULE CONTACTIN
FILE REFERENCE: 7683-111
CURRENT APPLICATION NUMBER: US/08/826,134A
CURRENT FILING DATE: 1997-03-26
EARLIER APPLICATION NUMBER: 60/014,199
EARLIER FILING DATE: 1996-03-27
NUMBER OF SEQ ID NOS: 32
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                                                                                                                                                                                                                                                                                                                                                                           Sequence 69, Application US/09475947A Patent No. 6472154
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Best Local Similarity
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                                                                                                                                                                                                                                                                                       APPLICANT: Garner, Harold R.
APPLICANT: Wren, Jonathan D.
APPLICANT: Minna, John D.
TITLE OF INVENTION: Polymorphic Repeats in Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE: OTHER INFORMATION: Description of Artificial Sequence: primer
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                                                                             Local Similarity
                       2637 TTCTTGTTCTTCAGG
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Pred. No. 1.
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Job time : 5 secs

Search completed: December 1, 2003, 11:58:03

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Minimum
Maximum
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Perfect score:
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Maximum Match 100%
Listing first 285
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Patent No. US20020045251A1
GENERAL INFORMATION:
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 1.

COMPUTER: Compaq Presario 4540

OPERATING SYSTEM: Windows 95

SOFTWARE: Word Perfect 8.0

CURRENT APPLICATION NUMBER: US/09/073,881

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/073,881

FILING DATE: 07-MAY-1997

ATTORNEY/AGENT INFORMATION:

NAME: Alan J. Howarth

REGISTRATION NUMBER: 36,553

REFERENCE/DOCKET NUMBER: 74903.CIP

TELEPHONE: (801)566-6633

TELEPHONE: (801)566-663
                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: Thorpe, No. US20020045251Alth & Western,
STREET: P.O. Box 1219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Rao, Mahendra S.
APPLICANT: Mujtaba, Tahmina
TITLE OF INVENTION: A Common Neural Progenitor for the CNS and
NUMBER OF SEQUENCES: 26
                                                                                                                                                                                                                                                                                                                                                                                       CITY: Sandy
STATE: Utah
                                                                                                                                                                                                                                                                                                                                                                     COUNTRY:
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ER: T4903.CIP
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US-10-156-306-1426
US-10-156-306-4426
US-10-156-306-4426
US-10-156-306-4426
US-10-156-306-4426
US-09-263-959-638
US-10-077-508-5
US-10-077-621-3
US-10-077-621-3
US-10-077-232-3
US-10-077-247-3
US-10-077-247-3
US-10-077-332-5
US-10-077-332-5
US-10-077-392-5
US-10-077-392-3
US-10-077-392-3
US-10-077-392-5
US-09-848-7548-9628
US-09-848-7548-9628
US-09-943-93-157
US-10-440-850-911
US-10-10-802-192
US-10-287-919-2272
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174, Appli
174, Appli
9628, Ap
157, App
157, Appl
57, Appl
511, App
50, Appl
192, App
2272, Ap
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364, App

365, App

365, App

1457, Ap

1457, Ap

1557, Ap

166, App

2834, Ap

4920, Ap

4920, Ap

616, App

616, App

618, A
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                                                                                       ; OTHER INFORMATION: Antisense Oligonucleotide US-09-954-556-62
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US-09-954-556-62/c
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US-09-954-556-61/c
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                              Query Match
Best Local S
Matches 20
                                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/954,556
CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
SEQ ID NO 62
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Brett P. Monia
APPLICANT: Susan M. Freier
APPLICANT: Scott Cooper
APPLICANT: Scott Cooper
TITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR
FILE REFERENCE: RTS-0250
CURRENT APPLICATION NUMBER: US/09/954,556
CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
                                                                                                                                                                                                                                                                                                                          Sequence 62, Application US/09954556 Publication No. US20030078219A1
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Best Local Similarity
Matches 20; Conserv
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                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
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                                                                                                                                                                                                                                    APPLICANT: Brett P. Monia
APPLICANT: Susan M. Freier
APPLICANT: Scott Cooper
TITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2 EXPREILE REFERENCE: RTS-0250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO:
                                                                                                                                                  TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: Antisense Oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                ORGANISM: Artificial Sequence
                                                                                                                     FEATURE:
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STRANDEDNESS: sing
TOPOLOGY: linear
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 1318 GGGATATCCTTTCACTCTGC 1337
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                              1 Similarity 20; Conserv
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                                             DB 1;
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24;
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US-09-954-556-65/c
; Sequence 65, Application US/09954556; Publication No. US20030078219A1; GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                   US-09-954-556-64
                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 64
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
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LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
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Best Local 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: SUBAN M. Freier
APPLICANT: SCOTT COOPER
TITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2 EXPRE
FILE REFERENCE: RTS-0250
CURRENT APPLICATION NUMBER: US/09/954,556
CURRENT FILLING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
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CURRENT APPLICATION NUMBER: US/09/954,556
CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
APPLICANT: Susan M. Freier
APPLICANT: Scott Cooper
TITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2 EXPRE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Brett P. Monia
APPLICANT: Susan M. Freier
APPLICANT: Scott Cooper
                                                       APPLICANT: Brett P. Monia
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                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
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20; Conserv
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100.0%; Pred. No.
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24;
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; OTHER INFORMATION: Antisense Oligonucleotide US-09-954-556-67
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                                                         NUMBER OF SEQ ID NOS: 108
SEQ ID NO 67
LENGTH: 20
TYPE: DNA
                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Brett P. Monia
APPLICANT: Susan M. Freier
APPLICANT: Scott Cooper
TITLE OF INVENTION: ANTISENSE MODULATION OF
FILE REFERENCE: RTS-0250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: RTS-0250
CURRENT APPLICATION NUMBER: US/09/954,556
CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
SEQ ID NO 65
LENGTH: 20
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LENGTH: 20
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Best Local Similarity
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Publication No. US20030078219A1
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APPLICANT: Susan M. Freier
APPLICANT: Scott Cooper
TITLE OF INVENTION: ANTISENSE MODULATION OF
FILE REFERENCE: RTS-0250
                                                                                                                                   CURRENT APPLICATION NUMBER: US/09/954,556
CURRENT FILING DATE: 2001-09-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/09/954,556
CURRENT FILING DATE: 2001-09-14
                                 ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: Antisense Oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
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Query Match

Score 20;

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APPLICANT: Brett P. Monia
APPLICANT: Susan M. Freier
APPLICANT: Susan M. Freier
APPLICANT: Scott Cooper
ITITLE OF INVENTION: ANTISENSE MODULATION OF FIE
FILE REFERENCE: RTS-0250
CURRENT APPLICATION NUMBER: US/09/954,556
CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
SEQ ID NO 69
SEQ ID NO 69
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APPLICANT: SUSAN M. Freier

ITITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2 EXPRIPTION RECEPTOR 2 EXPRIPTION RECEPTOR 1 EXPRESSION NUMBER: US/09/954,556

CURRENT FILING DATE: 2001-09-14

NUMBER OF SEQ ID NOS: 108

LENGTH: 20

TYPE: DATE

TYPE: DATE
                                            RESULT 11
US-09-954-556-70/c
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US-09-954-556-69/c
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US-09-954-556-68/c
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 Sequence 70, Application US/09954556 Publication No. US20030078219A1 GENERAL INFORMATION:
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Best Local Similarity
Matches 20; Conserv
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Best Local Similarity
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-09-954-556-69
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TYPE DA
ORGANISM: Artificial Sequence
FEATURE:
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ORGANISM: Artificial Sequence
FEATURE:
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100.0%; Pred. No. 24;
Live 0; Mismatches
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100.0%; Pred. No. 24;
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LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
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; OTHER INFORMATION: Antisense Oligonucleotide US-09-954-556-71
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US-09-954-556-71/c
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TITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2 EXPRE FILE REFERENCE: RTS-0250
CURRENT PAPLICATION UNMERR: US/09/954,556
CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
SEQ ID NO 72
LENGTH: 20
                                                                                                                                              Sequence 72, Application US/09954556
Publication No. US20030078219A1
GENERAL INFORMATION:
APPLICANT: Brett P. Monia
APPLICANT: Susan M. Freier
APPLICANT: Scott Cooper
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CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
SEQ ID NO 71
LENGTH: 20
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APPLICANT: Brett P. Monia
APPLICANT: Susan M. Freier
APPLICANT: Scott Cooper
APPLICANT: SCOTT COOPER
TITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2 EXPRE
FILE REFERENCE: RTS-0250
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SEQ ID NO 70
LENGTH: 20
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APPLICANT: Scott Cooper
APPLICANT: Scott Cooper
TITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR
FILE REFERENCE: RTS-0250
FILE REFERENCE: RTS-0250
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CURRENT FILING DATE: 2001-09-14
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ORGANISM: Artificial Sequence
FEATURE:
ATTION: Antisense
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ORGANISM: Artificial Sequence
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larity 100.0%; Pred. No.
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100.0%; Pred. No.
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RESULT 16
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APPLICANT: Susan M. Freier
APPLICANT: Susan M. Freier
APPLICANT: SCOTT COOPER
TITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2 EXPRE
FILE REFERENCE: RTS-0250
CURRENT APPLICATION UNMBER: US/09/954,556
CURRENT APPLICATION DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
SEQ ID NO 73
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
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Matches 20; Conserv
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CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
                                                                                                                                                                                                                                                                                                                                             APPLICANT: SUBAN M. Freier
APPLICANT: SCOTT COOPER
TITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2 EXPRIFILE REFERENCE: RTS-0250
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APPLICANT: Susan M. Frei
APPLICANT: Scott Cooper
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LENGTH: 20
TYPE: DNA
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                                                                              2562 CACAACCAATGAGGAATACT 2581
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to. US20030078219A1
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APPLICANT: SUSAN M. Freier

APPLICANT: SCOTT COOPET

TITLE OF INVESTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2 EXPRE
FILE REFERENCE: RTS-0250
CURRENT APPLICATION NUMBER: US/09/954,556
CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
SEQ ID NO 75
LENGTH: 20
TYPE: num
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Best Local Similarity
Thehes 20; Conserva
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US-09-954-556-96/c
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                                                                                                                                                                                                                                              RESULT 18
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                                                                                                                                                                                                                             US-09-954-556-98/c
APPLICANT: Brett P. Monia
APPLICANT: Susan M. Freier
APPLICANT: Susan M. Freier
APPLICANT: SCOTT COOPER
TITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2 EXPRE
FILE REFERENCE: RTS-0250
CURRENT APPLICATION NUMBER: US/09/954,556
CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
SEQ ID NO 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 96
LENGTH: 20
                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                      Sequence 98, Application US/09954556 Publication No. US20030078219A1
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CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
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APPLICANT: Susan M. Frei
APPLICANT: Scott Cooper
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Scott Cooper
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; Sequence 43, Application US/09805761
; Patent No. US20020165174A1
; GENERAL INFORMATION:
   APPLICANT: Gill, Parkesh
   APPLICANT: MASOOD, Rizwan
   TITLE OF INVENTION: METHODS AND COMPOSITIONS FO
; TITLE OF INVENTION: VEGF OLIGONUCLEOTIDES
; FILE REFERENCE: 21327-701CON2
; CURRENT APPLICATION NUMBER: US/09/805,761
; CURRENT FILING DATE: 2001-03-13
; PRIOR APPLICATION NUMBER: PCT/US01/00019
; PRIOR PILING DATE: 2001-01-19
; PRIOR PILING DATE: 2001-01-19
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LENGTH: 23
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TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTISENSE
TITLE OF INVENTION: VEGF OLIGONUCLEOTIDES
FILE REFERENCE: 21327-701 CONP
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Patent No. US2002
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PRIOR FILING DATE: 2000-01-19
PRIOR APPLICATION NUMBER: US 09/016,541
PRIOR FILING DATE: 2000-11-24
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SOFTWARE: FastSEQ for Windows Version 4.0
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PRIOR FILING DATE: 2001-01-19
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CURRENT FILING DATE: 2001-03-13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
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FILING DATE: 2001-01-19
APPLICATION NUMBER: US 09/487,023
FILING DATE: 2000-01-19
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Pred. No. 4;
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US-10-094-466-79; Sequence 79, Application US/10094466; Publication No. US20030203363A1
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US-09-953-047-5/c
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Publication No.
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APPLICANT: Brett P. Monia
APPLICANT: Jacqueline Wy
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                                CURRENT APPLICATION NUMBER: US/10/094,466
CURRENT FILING DATE: 2002-03-07
PRIOR APPLICATION NUMBER: 60/274,281
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: 60/288,148
PRIOR FILING DATE: 2001-05-02
PRIOR APPLICATION NUMBER: 60/274,849
PRIOR FILING DATE: 2001-05-02
PRIOR APPLICATION NUMBER: 60/274,849
                                                                                                                                                                    APPLICANT: Spytek et al.
TITLE OF INVENTION: NOVEL HUMAN PROTEINS,
TITLE OF INVENTION: AND METHODS OF USING
TITLE OF INVENTION: THE SAME
FILE REFERENCE: 21402-290D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
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CURRENT FILING DATE: 2001-09-10
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PRIOR FILING DATE: 2000-11-24
PRIOR APPLICATION NUMBER: US 09/016,541
PRIOR FILING DATE: 1998-01-30
PRIOR APPLICATION NUMBER: US 60/037,004
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NUMBER OF SEQ ID NOS: 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence FEATURE:
OTHER INFORMATION: PCR Primer
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TYPE: DNA
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TYPE: DNA
ORGANISM: Artificial Sequence
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APPLICATION NUMBER: 60/275,235
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                      -03-09
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Pred. No. 54;
0; Mismatches
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Pred. No. 47
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APPLICATION NUMBER: 60/338,375

2001-03-12

FILING DATE:

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                                                                                                                                    OTHER INFORMATION: Synthetic Sequence US-09-774-809-62
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                                                                                              Query Match
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                                                                  Matches
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                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/09/774,809
CURRENT FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: 09/396,902
                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 165
                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: 08/910,629
PRIOR FILING DATE: 1997-08-03
                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: 09/130,616
PRIOR FILING DATE: 1998-08-07
                                                                                                                                                                                                                                                                                                                                             PRIOR FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Gaarde, William A.
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE COMPOSITIONS AND METHODS
TITLE OF INVENTION: FOR THE MODULATION OF JNK PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: McKay, Robert A.
APPLICANT: Dean, Nicholas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Patin 2.1
EQ ID NO 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 114
                                                                                                                                                                                                                                                                                                                                                                                                                   FILE REFERENCE: ISPH-0412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                        ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PPLICANT:
                                                                                                                                                                                                          TYPE: DNA
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                                                                                                                                                                                                                                        ID NO 62
                                                                                  Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 2001-03-13
APPLICATION NUMBER: 60/276,000
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APPLICATION NUMBER: 60/275,579
                              2642 GTTCTTCAGGAGATGAT 2658
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                                                                  Conservative
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Pred. No. 71;
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RESULT 24

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GENERAL INFORMATION
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Patent No. US20020045251A1
                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
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NUMBER OF SEQ ID NOS: 55
SOFTWARE: Microsoft Office 97
                                                                                                       APPLICANT: Thorpé, Catherine
TITLE OF INVENTION: PLANT METHIONINE SYNTHASE GENE AND METHODS
TITLE OF INVENTION: METHIONINE CONTENT OF THE SEEDS OF PLANTS
FILE REFERENCE: BB-1067-B
                                                                                                                                                                               APPLICANT:
                                   PRIOR APPLICATION NUMBER: 08/703,829 PRIOR FILING DATE: 1996-08-27
                                                                      CURRENT APPLICATION NUMBER: US/09/989,339
CURRENT FILING DATE: 2002-05-31
                                                                                                                                                                                                                                 APPLICANT: Falco, APPLICANT: Famoo
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INFORMATION FOR SEQ ID NO:
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APPLICATION NUMBER: 08/8:
FILING DATE: 07-MAY-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
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REFERENCE/DOCKET NUMBER: T4
TELECOMMUNICATION INFORMATION:
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MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Thorpe, N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Rao, Mahendra S.
APPLICANT: Mujtaba, Tahmina
TITLE OF INVENTION: A Common Neural Progenitor for the CNS and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: Word Perfect 8.0 CURRENT APPLICATION DATA:
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OPERATING SYSTEM: Windows 95
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les 17; Conserv
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TOPOLOGY: lir
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION:
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                                                                                                                                                                                              Rafalski, Jan A.
Ramaker, Michael
                                                                                                                                                                                                                                   Famodu, Layo
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                                                                                                                                                                               Tarczynski, Mitchell C.
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100.0%; Pr
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Pred. No.
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; OTHER INFORMATION: Antisense Oligonucleotide
US-09-953-318-72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide US-09-989-339-51
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                             Query Match
Best Local S
Matches 17
                                                                                                       SEQ ID NO 39
LENGTH: 20
TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 72
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                               Sequence 39, Application US/09735995 Patent No. US20010034024A1
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Best Local Similarity
Matches 18; Conserv
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: C. Frank Bennett
APPLICANT: Andrew T. Watt
TITLE OF INVENTION: ANTISENSE MODULATION
TITLE OF INVENTION: EXPRESSION
FILE REFERENCE: RTS-0232
                                                                                                                                                                       PRIOR APPLICATION NUMBER: 09/226,012
PRIOR FILING DATE: 1999-01-06
NUMBER OF SEQ ID NOS: 116
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/09/735,995
CURRENT FILING DATE: 2000-12-14
                                                                                                                                                                                                                                                                 APPLICANT: Splawški, Igor
TITLE OF INVENTION: MUTATIONS IN AND GENOMIC STRUCTURE
TITLE OF INVENTION: SYNDROME GENE
FILE REFERENCE: 2323-136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/09/953,318
CURRENT FILING DATE: 2001-09-13
NUMBER OF SEQ ID NOS: 154
                                                                                                                                                                                                                                                                                                                 APPLICANT: Keating, Mark T.
APPLICANT: Splawski, Igor
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2556 CACTCTCACAACCAATGAG 2574
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                                            Similarity
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ilarity 90.0%;
Conservative
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0; Mismatches
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Pred. No. 67;
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Pred. No. 67;
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US-09-848-754A-3493
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US-09-733-294A-61
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APPLICANT: Brett P.
APPLICANT: William
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Patent No. US200
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                                                                                                                                                                                                                                                                                             TYPE: RNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
                                                                                                                                                                                                                                  Local Similarity
                                                                                                                                                                                                                     12;
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Sequence 3493, Application US/09848754A
Publication No. US20030073207A1
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Tr
TITLE OF INVENTION: Levels of Epidermal Grov
FILE REFERENCE: MBHB00-958-I (400/018)
CURRENT APPLICATION NUMBER: US/09/848,754A
CURRENT FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 9645
                                                                               RESULT 30

US-10-055-728-142/c

; Sequence 142, Application US/10055728

; Publication No. US20030170720A1

; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/733,294A
CURRENT FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: 09/572,423
PRIOR FILING DATE: 2000-05-16
NUMBER OF SEQ ID NOS: 108
SEQ ID NO 61
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: PatentIn version 3.0
SEQ ID NO 3493
LENGTH: 17
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Matches 17; Conservative
APPLICANT: van der Kuyl, Antoinette C.
APPLICANT: Cornelissen, Marion
TITLE OF INVENTION: MEANS AND METHODS FOR TREATMENT EVALUATION
FILE REFERENCE: 5244US (REN/P55190US00)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Susan M. Freier
APPLICANT: Edward V. Wancewicz
TITLE OF INVENTION: ANTISENSE M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Artificial Sequence FEATURE:
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                                                                                                                                                                                                                                                                      2318 ATCAGAGTGATGTCTGG
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                                                                                                                                                                                                                                                                                                                Conservative
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Pred. No. 91
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Pred. No. 7
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Publication No. US20030124105A1
GENERAL INFORMATION:
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PRIOR APPLICATION NUMBER: EP 01200228.3
PRIOR FILING DATE: 2001-01-23
NUMBER OF SEQ ID NOS: 156
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CURRENT FILING DATE: 2002-04-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: EP 0120373.2
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PRIOR FILING DATE: 2001-09-28
                      INFORMATION FOR SEQ ID NO:
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                                                                                         FILING DATE: 24-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: BUGAISKY, Lawrence B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 0609.3920003
TELECOMMUNICATION INFORMATION:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/080,850
                                                                                                                                                                                                                                                                                              CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: US 08/258,287
APPLICATION NUMBER: US 08/258,287
                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Yuan, Junying
APPLICANT: Miura, Masayuki
TITLE OF INVENTION: Programmed Cell Death Genes and
NUMBER OF SEQUENCES: 95
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                   TELEPHONE: (202) 3
TELEFAX: (202) 371
TELEX: 248636 SSK
                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US 08/368,704 FILING DATE: 4-JAN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                            CLASSIFICATION:
                                                                                                                                                                                                                                                                             FILING DATE: 10-JUN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Washington
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1100 New York Avenue, Suite 600
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                                                   OTHER INFORMATION: Sense Primer US-09-849-901-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 33
US-09-849-901-4/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: Antisense Oligonucleotide US-09-967-655-59
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US-09-967-655-59/c
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Best Local Similarity 94.1%;
Matches 16; Conservative
                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Wagener, Christoph
TITLE OF INVENTION: Method for Detecting Mutated Alleles
FILE REFERENCE: 4121-111 CIP
CURRENT APPLICATION NUMBER: US/09/849,901
CURRENT FILING DATE: 2001-05-03
PRIOR APPLICATION NUMBER: US 09/390,545
PRIOR FILING DATE: 1999-09-02
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Best Local Similarity
Matches 16; Conserv
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APPLICANT: C. Frank
APPLICANT: Andrew
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LENGTH: 20
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                                                                                                                                                          SOFTWARE: PatentIn version 3.0 SEQ ID NO 4
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Best Local Similarity
                  Query Match
                                                                                                                                                                                          PRIOR FILING DATE: 1998-03-04
NUMBER OF SEQ ID NOS: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/967,655
CURRENT FILING DATE: 2001-09-28
NUMBER OF SEQ ID NOS: 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: ANTISENSE MODULATION OF VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPT TITLE OF INVENTION: EXPRESSION FILE REFERENCE: RTS-0227
                                                                                                                                                                                                                               PRIOR FILING DATE: 1997-03-04
PRIOR APPLICATION NUMBER: PCT/DE98/00676
                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: DE19708758.2
                                                                                                                       LENGTH: 20
TYPE: DNA
                                                                                                   ORGANISM: Artificial Sequence
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DEDNESS: both
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1.1%;
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Pred. No. 1e+02;
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Pred. No. 1e+02;
 Score 15.2; DB 1;
Pred. No. 1.1e+02;
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                  Length 20;
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; FEATURE:
; OTHER INFORMATION:
US-09-906-158-67
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                                                                                                           APPLICANT: SUBAN M. Freier
TITLE OF INVENTION: ANTISENSE MODULATION OF TRANSFORMING GROWTH FACTOR-BETA 3 EXPRESS FILE REFERENCE: RTS-0257
CURRENT APPLICATION NUMBER: US/09/906,158
CURRENT FILING DATE: 2001-07-14
NUMBER OF SEQ ID NOS: 168
SEQ ID NO 67
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: Brett P. Monia
APPLICANT: Susan M. Frei
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Query Match
Best Local Similarity
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                Sequence 67, Application US/09906158
Publication No. US20030078217A1
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APPLICANT: BABOLA, Odile
APPLICANT: TRAN, Nathalle
APPLICANT: TRAN, Nathalle
APPLICANT: VERNET, Guy
TITLE OF INVENTION: AMPLIFICATION OF HIV-1 SEQUENCES FOR DETECTION
TITLE OF INVENTION: SEQUENCES ASSOCIATED WITH DRUG-RESISTANCE MUTA
FILE REFERENCE: GP114-02.UT
CURRENT APPLICATION NUMBER: US/09/944,036
CURRENT FILING DATE: 2001-08-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: US 60/229,790
PRIOR FILING DATE: 2000-09-01
NUMBER OF SEQ ID NOS: 70
SOFTWARE: Patentin Ver: 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: Description of Artificial Sequence: OTHER INFORMATION: Oligonucleotide primer for Protease OTHER INFORMATION: sequence NAME/KEY: modified base LOCATION: (1)..(2)
OTHER INFORMATION: 2'-O-methyladenosine
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LOCATION: (3)..(4)
OTHER INFORMATION: gm
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ORGANISM: Artificial Sequence
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Pred. No. 1.1e+02;
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RESULT 38 US-10-007-010-59/c US-10-007-010-59/c Fequence 59, Application US/10007010 Publication No. US20030125275A1
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US-09-953-318-78/c
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; LENGTH: 20
; TYPE: DNA
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CURRENT FILING DATE: 2001-09-13
NUMBER OF SEQ ID NOS: 154
SEQ ID NO 78
SEQ ID NO 78
LENGTH: 20
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Best Local Similarity
Matches 17; Conserv
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Best Local
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CURRENT FILLING DATE: 2003-06-28
NUMBER OF SEQ ID NOS: 11
SOFTWARE: Patentin Ver. 2.1
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TITLE OF INVENTION:
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APPLICANT: Andrew T. Watt
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Pred. No. 1.1e
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APPLICANT: Alexander H. Borchers

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LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
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LENGTH: 15
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Publication No.
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                                                     APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent for the Induction of Graft Tolerance
TITLE OF INVENTION: Immune Responses
FILE REFERENCE: 250/130 (NBHB00-900-A)
CURRENT APPLICATION NUMBER: US/10/440,850
CURRENT FILING DATE: 2003-05-19
PRIOR APPLICATION NUMBER: US/09/650,012
PRIOR APPLICATION NUMBER: US/09/650,012
PRIOR APPLICATION NUMBER: US/09/650,012
PRIOR APPLICATION NUMBER: US 08/585,684
PRIOR APPLICATION NUMBER: US 08/585,684
PRIOR FILING DATE: 1996-01-12
PRIOR FILING DATE: 1996-01-12
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APPLICANT: Stinchcomb, Dan
APPLICANT: Jarvis, Thale
APPLICANT: McSwiggen, Jim
                                                                                                                                                                                                                                                                                                                                                         Publication No.
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APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or conditions Related To Level
TITLE OF INVENTION: Epidermal Growth Factor Receptors
TILE REFERENCE: MBH00-958-K (400/064)
CURRENT EPPLICATION NUMBER: US/10/277,494
CURRENT FILING DATE: 2002-10-21
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SOFTWARE: PatentIn version 3.0
                 PRIOR APPLICATION NUMBER: US 60/000,951
PRIOR FILING DATE: 1995-07-07
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CURRENT FILING DATE: 2001-12-04
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APPLICATION NUMBER: US 09/038,073
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Pred. No. 1.1e+02
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US-09-848-754A-2907
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Sequence 2907, Application US/09848754A
Publication No. US20030073207A1
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate.
TITLE OF INVENTION: Levels of Epidermal Growth Factor Receptors
FILE REFERENCE: MSHB00-958-I (400/018)
CURRENT APPLICATION NUMBER: US/09/848,754A
CURRENT FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 9645
SOFTWARE: PatentIn version 3.0
SEQ ID NO 2907
LENGTH: 17
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Best Local Similarity 73.3%;
Matches 11; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: 250/130 (MBHB00-900-A) CURRENT APPLICATION NUMBER: US/10/440,850 CURRENT FILING DATE: 2003-05-19 PRIOR APPLICATION NUMBER: US/09/650,012 PRIOR FILING DATE: 2000-08-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR FILING DATE: 1998-03-11
NUMBER OF SEQ ID NOS: 2285
SOFTWARE: PatentIn version 3.0
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PRIOR FILING DATE: 1996-01-12
PRIOR APPLICATION NUMBER: US 60/000,951
PRIOR FILING DATE: 1995-07-07
PRIOR APPLICATION NUMBER: US 09/038,073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Stinchcomb, Dan
APPLICANT: Jarvis, Thale
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent for the Induction of Graft Tolerance and Rever
TITLE OF INVENTION: Immune Responses
FILE REFERENCE: 250/130 (MBHB00-900-8)
FILE REFERENCE: 250/130 (MBHB00-900-8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Ribozyme Pharmaceuticals, Inc APPLICANT: Stinchcomb, Dan
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NUMBER OF SEQ ID NOS: 2285
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TYPE: RNA
ORGANISM: Mus musculus
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TYPE: RNA
ORGANISM: Mus musculus
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Pred. No.
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Pred. No. 68;
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US-09-848-754A-2907
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                                     CURRENT APPLICATION NUMBER: US/10/251/117
CURRENT FILING DATE: 2003-02-24
PRIOR APPLICATION NUMBER: US 60/393,924
PRIOR FILING DATE: 2002-07-03
PRIOR APPLICATION NUMBER: US 10/163,552
PRIOR FILING DATE: 2002-06-06
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                                                                                                                                                                                                                                                                                    Publication No. US20030170891A1
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PRIOR TILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/358,580
PRIOR FILING DATE: 2002-02-20
                                                                                                                                                    APPLICANT: McSwiggen, James
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Epidermal Growth Factor
TITLE OF INVENTION: Gene Expression Using Short Interfering RNA
FILE REFERENCE: 900/042 (MBHB02-468-A)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: 900/042 (MBHB02-468-A)
CURRENT APPLICATION NUMBER: US/10/251,117
CURRENT FILING DATE: 2003-02-24
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APPLICANT: McSwiggen, James
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APPLICANT: McSwiggen, James
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FILING DATE: 2001-07-25
APPLICATION NUMBER: US 60/296,249
FILING DATE: 2001-06-06
APPLICATION NUMBER: US 60/358,580 FILING DATE: 2002-02-20
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Pred. No. 1.1e+02
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Pred. No.
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Query Match
Best Local Similarity
Matches 15; Conserva
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US-10-086-156-49
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                                                                                                                                                                                                                               Sequence 49, Application US/10086156 Publication No. US20030054989A1
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SEQ ID NO 14
LENGTH: 20
TYPE: DNA
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APPLICANT: Brunsor
APPLICANT: Roberts
APPLICANT: Mickels
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CURRENT APPLICATION NUMBER: US/10/086,156
CURRENT FILLNG DATE: 2002-02-28
PRIOR APPLICATION NUMBER: US 60/272,190
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: US 60/274,258
PRIOR APPLICATION NUMBER: US 60/274,258
PRIOR FILLNG DATE: 2001-03-07
NUMBER OF SEQ ID NOS: 98
                                                                                                                                 APPLICANT: Bristol-Myers Squibb Company
TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING
TITLE OF INVENTION: K+betaM4 and K+betaM5
FILE REFERENCE: D0115NP
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CURRENT FILING DATE: 2001-07-18
NUMBER OF SEQ ID NOS: 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION: Description of Artificial Sequence:oligonucleotide NAME/KEY: misc feature LOCATION: (1)..(20) OTHER INFORMATION: Human RYR bases 6686-6667.
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OTHER INFORMATION: Description of Artificial Sequence: sina antisense region
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LE REFERENCE: 960296.98148
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Roberts, Monica C.
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Pred. No.
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TITLE OF INVENTION: Methods for Generating Insulin-Secreting
FILE OF INVENTION: Cells Suitable for Transplantation
FILE REFERENCE: 6246.200-US
CURRENT APPLICATION NUMBER: US/10/090,011
CURRENT FILING DATE: 2002-02-26
PRIOR APPLICATION NUMBER: US 60/271,474
PRIOR FILING DATE: 2001-02-26
VUMBER OF SEQ ID NOS: 70
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 38
LENGTH: 20
TYPE: DNA
ORGANISM: Homo Sapien
US-10-090-011-38
                                                                                                                                                                                                                 Sequence 30, Application US/10309175
PUDDICATION NO. US20030148347A1
GENERAL INFORMATION:
APPLICANT: Georg A. HOLLANDER
TITLE OF INVENTION: NUCLEAR PROTEIN
FILE REFERENCE: 117-427 / N84006
CURRENT APPLICATION NUMBER: US/10/309,175
CURRENT FILING DATE: 2002-12-04
PRIOR APPLICATION NUMBER: US 60/336,176
PRIOR TILING DATE: 2001-12-06
NUMBER OF SEQ ID NOS: 32
SOFTWARE: MS WORT
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US-10-309-175-30/c
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US-10-090-011-38/c
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; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-086-156-49
                                                                       ; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-10-309-175-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
APPLICANT: Serup, Palle
APPLICANT: Heimberg, Harry
APPLICANT: Gradwohl Gerard
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LENGTH: 20
                                                                                                                                                                                    SEQ ID NO 30
LENGTH: 18
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Publication No.
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                 Query Match 1.1%;
Best Local Similarity 88.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
 Matches
                                                                                                                                            ORGANISM: Artificial sequence
                                                                                                                                                                   TYPE: DNA
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16; Conservative
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To. US20030082810A1
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100.0%; Pred. No.
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100.0%; Pred. No. 1.2e+02;
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 0; Mismatches
                 Score 14.8; DB 1; Length 18; Pred. No. 1e+02;
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; GENERAL INFORMATION.
; APPLICANT: Effertz, Roger J.
APPLICANT: Hauge, Brian M.
; TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping
; FILE REFERENCE: 38-10(52679)A
; CURRENT APPLICATION NUMBER: US/09/969,373
; CURRENT FILING DATE: 2001-01-02
; PRIOR APPLICATION NUMBER: US 09/754,853
; PRIOR APPLICATION NUMBER: US 09/754,853
; PRIOR APPLICATION NUMBER: US 09/760,427
; PRIOR FILING DATE: 2001-01-13
; PRIOR APPLICATION NUMBER: US 09/855,768
                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Effertz, Roger J.

APPLICANT: Hauge, Brian
FITTLE OF INVENTION: Soybean SSRs and Methods of Genotyping
FILE REFERENCE: 38-10(52679)A
CURRENT APPLICATION NUMBER: US/09/969,373
CURRENT FILING DATE: 2001-10-02
PRIOR APPLICATION NUMBER: US 09/754,853
PRIOR APPLICATION NUMBER: US 09/760,427
PRIOR APPLICATION NUMBER: US 09/855,768
PRIOR PILING DATE: 2001-05-15
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US-09-969-373-2967/c
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Patent No. US20020133852A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                             SEQ ID NO 4219
LENGTH: 19
TYPE: DNA
ORGANISM: Glycine max
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                                                                                                               Best Local Similarity
Matches 16; Conserv
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nes 16; Conserv
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                                                    1879 GAGATGATGAAGATGATT 1896
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                                                                                                               Score 14.8; DB 1;
Pred. No. 1.1e+02;
0; Mismatches 2
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Pred. No. 1.1e+02;
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RESULT 51

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Best Local (
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CURRENT APPLICATION NUMBER: US/10/357,488
CURRENT FILING DATE: 2003-02-04
PRIOR APPLICATION NUMBER: 260/MAS/2002
PRIOR FILING DATE: 2002-04-08
NUMBER OF SEQ ID NOS: 37
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TITLE OF INVENTION: No. US20030194730A1el FISSR-PCR primers and markers and a method
TITLE OF INVENTION: primers and markers for identifying genetic constitution and bre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: US 60/207,456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILE REFERENCE: AEOMICA-7
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
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                                                                   PILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00663
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00662
                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US 60/236,359 FILING DATE: 2000-09-27
                                                                                                                              APPLICATION NUMBER: PCT/US01/00668 FILING DATE: 2001-01-30
                                                                                                                                                                                                         APPLICATION NUMBER: PCT/US01/00669 FILING DATE: 2001-01-30
                                                                                                                                                                                                                                                      APPLICATION NUMBER: PCT/US01/00664
                                                                                                                                                                                                                                                                                                                                     FILING DATE: 2000-09-27
APPLICATION NUMBER: PCT/US01/00666
                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: GB 24263.6 FILING DATE: 2000-10-04
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                                                         FILING DATE:
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                                   APPLICATION NUMBER: PCT/US01/00661
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                                                                                                                                                                   CATION NUMBER: PCT/US01/00665
NG DATE: 2001-01-30
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PCT/US01/00670
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Pred. No. 9:
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RESULT 53
US-09-866-108-8375/c
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NUMBER OF SEQ ID NOS:
SOFTWARE: Aeomica Seq.
SEQ ID NO 8375
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Patent No. US20020048800A1
GENERAL INFORMATION:
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PRIOR
                                                          PRIOR APPLICATION NUMBER: US 60/266,860 PRIOR FILING DATE: 2001-02-05
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PRIOR
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PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
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PRIOR FILING DATE: 2001-02-05
NUMBER OF SEQ ID NOS: 15752
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PRIOR FILING DATE: 2000-05-26
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CURRENT FILING DATE: 2001-05-25
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
FILE REFERENCE: AEOMICA-7
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PRIOR APPLICATION NUMBER: US 60/234,687
                                                                                                                                                                                          PRIOR APPLICATION NUMBER: PCT/US01/00661
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TYPE: DNA
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Local Similarity 93.8%;
es 15; Conservative
                                                                                                              APPLICATION NUMBER: US 60/234,687
                                                                                                                                     FILING DATE: 2001-01-30
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                                                                                                 FILING DATE: 2000-09-21
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Pred. No. 1e+02;
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                                                                                                                         TYPE: DNA.
ORGANISM: Homo sapiens
3-09-866-108-9001
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Best Local Similarity
Matches 15; Conserv
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                                                             Matches
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Best Local
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PRIOR FILING DATE: 2000-05-26
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CURRENT FILING DATE: 2001-05-25
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: SHANNON, MARK
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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APPLICANT: JI, Yongga
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**ETLING DATE: 2001-01-30

**ETLING DATE: 2001-01-30

**APPLICATION NUMBER: PCT/US01/00664

**REPLICATION NUMBER: PCT/US01/00669
                                                                                                                                                                                                                                      APPLICATION NUMBER: US 60/266,860 FILING DATE: 2001-02-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: GB 24263.6
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APPLICATION NUMBER: PCT/US01/00663
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                            1505 GCCAGCCGGCTGTGCA 1520
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US20020048800A1
                                                                            Similarity
GCCAGCCGGCGGTGCA 17
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                                                             Conservative
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Pred. No. 1e+0
0; Mismatches
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                                                           Score 14.4; DB
Pred. No. 1e+02;
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RESULT 56
US-09-848-754A-2482
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; ORGANISM: Homo sapiens
US-09-866-108-9002
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PRIOR FILING DATE: 2000-09-27
PRIOR PPLICATION NUMBER: US 60/236,359
PRIOR PPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR PPLICATION NUMBER: PCT/US01/00667
PRIOR PPLICATION NUMBER: PCT/US01/00664
PRIOR PPLICATION NUMBER: PCT/US01/00664
PRIOR PPLICATION NUMBER: PCT/US01/00669
PRIOR PPLICATION NUMBER: PCT/US01/00669
PRIOR PPLICATION NUMBER: PCT/US01/00665
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR PILING DATE: 2001-01-30
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US-09-866-108-9002
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PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263.6
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CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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SEQ ID NOS: 15752
                                                                                            GCCAGCCGGCGGTGCA 16
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PENN, Sharron
HANZEL, David
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Pred. No. 1e+0
0; Mismatches
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1e+02;
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Sequence 2482, Application US/09848754A Publication No. US20030073207A1 GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Ir TITLE OF INVENTION: Enzymatic Nucleic Particle of Invention: Levels of Epiderma

Pharmaceuticals, Inc

Enzymatic Nucleic Acid Treatment of Diseases Levels of Epidermal Growth Factor Receptors

or Conditions Relate

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; FILE REFERENCE: MBHB00-958-I (400/018)
; CURRENT APPLICATION NUMBER: US/09/848,754A
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 9645
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2482
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-848-754A-2482
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; ORGANISM: Homo sapiens
US-10-238-700-3390
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US-10-238-700-3390/c
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Best Local Similarity 93.8%;
Matches 15; Conservative
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                                                                                                                                                                                                                                                                                              GENERAL
                                                                                                                                                                                                                                                                                                             Sequence 3116, Application US/10084839 Publication No. US20030186238A1
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Best Local Similarity 68.8%;
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APPLICANT: McSwiggen, James
TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or Conditions Related to Level
FILE REFERENCE: 400/057 (MBHB01-1158-A)
CURRENT APPLICATION NUMBER: US/10/238,700
CURRENT FILING DATE: 2002-09-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: US 60/318,471
PRIOR FILING DATE: 2001-09-10
NUMBER OF SEQ ID NOS: 4666
SOFTWARE: Patentin version 3.0
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Lymaicheva, Natalie E
Ma, WuPo
                                                                                                                                            Eis, Peggy S.
Hall, Jeff G.
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                                                   Kwiatkowski, Jr., Ro
Lukowiak, Andrew A.
                                                                                                                                                                                Chehak, LuAnne
Curtis, Michelle L.
                                                                                                                                                                                                                      Bartholomay, Christian T.
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                                                                                       Kaiser, Michae
                                                                                                            Ji, Lin
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                                                                        Robert
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; SEQ ID NO 789
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-230-006-789
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US-10-230-006-790
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US-10-230-006-789
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                                                                                          Sequence 790, Application US/10230006 Publication No. US20030191077A1 GENERAL INFORMATION:
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TYPE: DNA
                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                    Query Match
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Best Local Similarity 93.8%;
                                        APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Fosnaugh, Kathy
APPLICANT: McSwiggen, Jim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILE REFERENCE: 400/056 (MBHB01-1110)
CURRENT APPLICATION NUMBER: US/10/230,006
CURRENT FILING DATE: 2002-11-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Fosnaugh, Kathy
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC CONDI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: US 60/315,315 PRIOR FILING DATE: 2001-08-28
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CURRENT FILING DATE: 2002-02-26
NUMBER OF SEQ ID NOS: 4004
SOFTWARE: Patentin version 3.1
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APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC CONDI-
FILE REFERENCE: 400/056 (MBHB01-1110)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: PatentIn version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 2678
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TITLE OF INVENTION: RNA Detection Assays
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                                                                                                                                                                                                                                                                                                            Local Similarity
nes 14; Conserv
                                                                                                                                                                                                                                                                        1992 AGAATACCTCCGAGCC 2007
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Skrzypczynski, Zbigniew
Takova, Tsetska Y.
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Olson-Munoz, Marilyn C.
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APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANTION: Epidermal Growth Factor Receptors
FILE REFERENCE: MBH800-958-K (400/064)
CURRENT APPLICATION NUMBER: U9/10/277,494
CURRENT FILING DATE: 2002-10-21
NUMBER OF SEQ ID NOS: 446
SOFTWARE: Patentin version 3.0
SEQ ID NO 46
LENGTH: 15
TYPE: RNA
ORGANISM: Homo sapiens
US-10-277-494-46
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US-10-277-494-46
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; ORGANISM: Homo sapiens
US-10-230-006-790
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SEQ ID NO 41
LENGTH: 15
TYPE: RNA
ORGANISM: Homo sapiens
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Publication No. US20030186909A1 
GENERAL INFORMATION:
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Publication No. US20030186909A1
GENERAL INFORMATION:
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Best Local Similarity 71.4%;
Matches 10; Conservative
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 Best Local Similarity 71.4
Matches , 10; Conservative
                                        Query Match
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APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or conditions Related To Level
TITLE OF INVENTION: Epidermal Growth Factor Receptors
FILE REFERENCE: MBHB00-958-K (400/064)
CURRENT APPLICATION NUMBER: US/10/277,494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT FILING DATE: 2002-10-21 NUMBER OF SEQ ID NOS: 446
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nilarity 87.5%;
Conservative 1
                   1.0%;
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 ; Score 14; DB
; Pred. No. 93;
4; Mismatches
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Pred. No.
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93;
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CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION UNMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-10-04
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR PILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
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SEQ ID NO 6888
                                                                               Matches
                                                                                                   Query Match
Best Local (
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
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PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
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PRIOR APPLICATION NUMBER: PCT/US01/00668
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
                                                                                                                                                                                LENGTH: 17
TYPE: DNA
ORGANISM: Homo sapiens
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PRIOR APPLICATION NUMBER: PCT/US01/00662
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                                                                                                     Local Similarity
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                                   1358 CGCCTGGAAGAGAA 1371
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HANZEL, David
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                                                                               Conservative
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100.0%; Pred. No.
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RESULT 64 US-09-866-108-6889/c

GENERAL INFORMATION

Sequence 6889, Application US/09866108 Patent No. US20020048800A1

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US-09-866-108-6889
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Best Local
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APPLICANT:
APPLICANT:
                                                                                                                                                                         Patent No. USZUUZVU.
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THE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 2000-09-21
APPLICATION NUMBER: US 60/266,860
FILING DATE: 2001-02-05
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APPLICATION NUMBER: US/09/866,108
                                                                                                                                                                                                                                                                                                              16 CGCCTGGAAGAGAA 3
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                        I: RANK, David R.
I: CHEN, Wensheng
I: SHANNON, Mark
INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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                                                                                                     JI, Yonggang
PENN, Sharron G.
HANZEL, David K.
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                                                                                                                                                                                                                                                                                                                                                                                  1.0%; Silarity 100.0%; Conservative 0;
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N, Sharron
ZEL, David
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hes 0;
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                                                         CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR FILING DATE: 2000-10-09
PRIOR FILING DATE: 2000-09-27
PRIOR FILING DATE: 2000-09-27
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                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                               APPLICANT: RANK, David R.
APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: GU, Yizhong APPLICANT: JI, Yongga
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PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
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PRIOR FILING DATE: 2001-01-30
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                                          APPLICATION NUMBER:
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APPLICATION NUMBER: PCT/US01/00661
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PENN, Sharron G.
HANZEL, David K.
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Conservative
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PCT/US01/00667
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RESULT 68
US-09-776-474-1034
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; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-848-754A-2483
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                                    Sequence 1034, Application US/09776474 Publication No. US20030087847A1 GENERAL INFORMATION:
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Best Local &
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Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 14; Conservative 0; Mismatches 0;
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TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions
TITLE OF INVENTION: Levels of Epidermal Growth Factor Receptors
FILE REFERENCE: MBHB00-958-I (400/018)
CURRENT APPLICATION NUMBER: US/09/848,754A
CURRENT FILING DATE: 2001-05-03
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PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 60/266,860
PRIOR FILING DATE: 2001-02-05
NUMBER OF SEQ ID NOS: 15752
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SOFTWARE: PatentIn version 3.0
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                  APPLICANT: Ribozyme
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ENGTH: 17
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APPLICATION NUMBER: PCT/US01/00664
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00669
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APPLICATION NUMBER: PCT/US01/00662
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00661
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FILING DATE: 2001-01-30
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Jarvis,
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Conservative
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Pharmaceuticals, Inc Thale
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Pred. No. 1.2e
4; Mismatches
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0;
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RESULT 70 US-09-776-474-1036

Sequence 1036, Application US/09776474 Publication No. US20030087847A1 GENERAL INFORMATION:

APPLICANT: Ribozyme

Pharmaceuticals, Inc

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                                                                          Matches
                                                                                     Query Match
Best Local
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APPLICANT:
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PRIOR FILING DATE: 2000-03-02
NUMBER OF SEQ ID NOS: 2992
                                                                                                                                                                                                                                                                                                                                              APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent for the Inhibition of
TITLE OF INVENTION: Method and Reagent for the Inhibition of
TITLE OF INVENTION: Enzyme
FILE REFERENCE: MBHB00-955-A (400/008)
CURRENT APPLICATION NUMBER: US/09/776,474
CURRENT FILING DATE: 2001-02-02
CURRENT FILING DATE: 2001-02-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Ribozyme Pharmaceuticals, Inc. APPLICANT: Jarvis, Thale APPLICANT: Booher, Robert APPLICANT: Holman, Patricia APPLICANT: Fattaey, Ali
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent fo:
TITLE OF INVENTION: Method and Reagent fo:
TITLE OF INVENTION: Enzyme
FILE REFERENCE: MBHB00-955-A (400/008)
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,983
PRIOR APPLICATION NUMBER: US 60/179,983
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NUMBER OF SEQ ID NOS: 2992
                                                                                                                                                                OTHER INFORMATION: Description of Artificial Sequence:
                                                                                                                                                                               FEATURE:
                                                                                                                                                                                                ORGANISM: Artificial Sequence
                                                                                                                                                                                                                    LENGTH: 17
TYPE: RNA
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nes 12; Conservative
                                1730 CCCTGGGAGAAGGT 1743
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                                                                      1 Similarity
12; Conserv
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 CCCUGGGAGAAGGU 16
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                                                                      Conservative
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85.7%;
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Pred. No. 1.2e
2; Mismatches
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Pred. No. 1.2e+02;
                                                                          Mismatches
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FILE REFERENCE: MBHB00-955-A (400/008)
CURRENT APPLICATION NUMBER: US/09/776,474
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,983
PRIOR FILING DATE: 2000-03-02
NUMBER OF SEQ ID NOS: 2992
SOFTWARE: Patentin version 3.0
SEQ ID NO 1036
LENGTH: 17
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
FILE REFERENCE: AEOMICA-7
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TITLE OF INVENTION: Method and Reagent for the Inhibition of Checkpoint Kinase-1 (CHK
TITLE OF INVENTION: Enzyme
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                                                                                                                                                                                                                                                                               APPLICATION NUMBER: PCT/US01/00666
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00667
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00664
                                                                                              FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00663
FILING DATE: 2001-01-30
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APPLICATION NUMBER: US 60/236,359
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APPLICATION NUMBER: PCT/US01/00668
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APPLICATION NUMBER: PCT/US01/00665
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APPLICATION NUMBER: PCT/US01/00669
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                                                         FILING DATE: 2001-01-30
                                                                             APPLICATION NUMBER: PCT/US01/00662
                                    APPLICATION NUMBER: PCT/US01/00661
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5. US20020048800A1
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              LING DATE: 2001-01-30
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ICATION NUMBER: PCT/US01/00670
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HANZEL, David K.
RANK, David R.
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Pred. No. 1.2e+02;
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                                                      PRIOR APPLICATION NUMBER: US 60/266,860
PRIOR FILING DATE: 2001-02-05
NUMBER OF SEQ ID NOS: 15752
SOFTWARE: Aecmica Sequence Listing Engine
SEQ ID NO 7673
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
FILE REFERENCE: AEOMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
CURRENT FILING DATE: 2001-05-25
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PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 60/266,860
PRIOR FILING DATE: 2001-02-05
NUMBER OF SEQ ID NOS: 15752
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TYPE: DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
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PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
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PRIOR FILING DATE: 2000-05-26
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PRIOR FILING DATE: 2001-01-30
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ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: PCT/US01/00662
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5. US20020048800A1
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88.2%;
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Pred. No. 1
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US-09-866-108-9075
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; ORGANISM: Homo sapiens
US-09-866-108-9075
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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FILING DATE: 2001-01-30
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                              1397 ACCTGGAGATAGCCATT 1413
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5. US20020048800A1
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ACCTGGAGACATCCATT 17
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                                                               Conservative
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                                                                                                                                                                                                               Listing Engine
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Pred. No. 1.2e+02;
                                                                             Score 13.8; DB 1;
Pred. No. 1.2e+02;
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; LOCATION: (1)...(17)
; OTHER INFORMATION: sequencing oligonucleotide moPGrace5R444
US-09-901-484A-84
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US-09-901-484A-84/c
                                                                                                                                                                                                                                                     APPLICANT: Bougueleret, Lydie
TITLE OF INVENTION: PROSTATE CANCER GENE
FILE REFERENCE: GENEST, 18CE1CP
CURRENT APPLICATION NUMBER: US/09/853,526
CURRENT FILING DATE: 2001-05-11
PRIOR APPLICATION NUMBER: 09/338,907
PRIOR APPLICATION NUMBER: 09/338,907
PRIOR APPLICATION NUMBER: 08/996,306
PRIOR APPLICATION NUMBER: 08/996,306
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PRIOR FILING DATE: 1997-12-22
PRIOR APPLICATION NUMBER: US 60/099,658
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: US 09/218,207
PRIOR APPLICATION NUMBER: US 09/338,907
PRIOR APPLICATION NUMBER: US 09/338,907
PRIOR FILING DATE: 1998-12-22
PRIOR FILING DATE: 1999-06-23
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SEQ ID NO 84
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                                                                                    SEQ ID NO 84
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
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PRIOR FILING DATE: 2001-05-11
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CURRENT APPLICATION NUMBER: US/09/901,484A
CURRENT FILING DATE: 2001-07-09
                                                                                                                               NUMBER OF SEQ ID NOS:
                                                                                                                                                   PRIOR APPLICATION NUMBER: 09/218,207 PRIOR FILING DATE: 1998-12-22
                                                                                                                                                                                                                 PRIOR FILING DATE: 1997-12-22
PRIOR APPLICATION NUMBER: 60/099,658
                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Cohen, Daniel
APPLICANT: Blumenfeld, Marta
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                                                                                                           SOFTWARE:
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TITLE OF INVENTION: Prostate Cancer Gene
                                            TYPE: DNA
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FEATURE:
                    ORGANISM: Mus Musculus
                                                                   ENGTH:
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o. US20020165345A1
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                                                                                                           Patent.pm
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Pred. No. 1.2e+02
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APPLICANT: Zinnen, Shawn
FILE OF INVENTION: Nucleotide Triphosphate and the FILE REFERENCE: MBHB00-831-F (400/009)
CURRENT APPLICATION UNMBER: US/09/825,805
CURRENT FILING DATE: 2001-09-27
PRIOR APPLICATION NUMBER: 09/578,223
PRIOR FILING DATE: 2000-05-3
PRIOR FILING DATE: 12000-05-3
PRIOR APPLICATION NUMBER: 09/476,387
PRIOR APPLICATION NUMBER: 09/476,387
PRIOR APPLICATION NUMBER: 09/474,432
PRIOR APPLICATION NUMBER: 09/474,432
PRIOR TILING DATE: 1999-12-30
PRIOR TILING DATE: 1999-12-30
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PRIOR TILING DATE: 1999-12-30
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US-09-864-785-2863
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US-09-853-526-84
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TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
TITLE OF INVENTION: Levels of NF-Kappa B
FILE REFERENCE: 400/022 (MBHB00-812-D)
CURRENT APPLICATION NUMBER: US/09/864,785
CURRENT FILING DATE: 2001-05-23
NUMBER OF SEQ ID NOS: 3929
SOFTWARE: Patentin version 3.0
SEQ ID NO 2863
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APPLICANT:
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GENERAL INFORMATION
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Best Local Similarity
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APPLICANT: Stinchcomb, Dan
APPLICANT: Draper, Ken
APPLICANT: McSwiggen, Jim
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ORGANISM: Artificial Sequence
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APPLICATION NUMBER: 09/301,511
FILING DATE: 1999-04-28
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Adamic, Jasenka Matulic
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ilarity 88.2%;
Conservative
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Pred. No. 1.2e
0; Mismatches
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Pred. No. 1
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; ORGANISM: Homo sapiens
US-09-825-805-777
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US-09-825-805-777
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SEQ ID NO 384
LENGTH: 17
TYPE: RNA
ORGANISM: Homo sapiens
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                                                             Query Match
Best Local Similarity
Matches 12; Conserv
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 777
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APPLICANT: Ribozyme Pharmaceuticals,
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PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/064,866
PRIOR FILING DATE: 1997-11-05
NUMBER OF SEQ ID NOS: 1558
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PRIOR FILING DATE: 1999-04-28
PRIOR APPLICATION NUMBER: 09/186,675
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PRIOR FILING DATE: 1999-12-30
PRIOR APPLICATION NUMBER: 09/474,432
PRIOR APPLICATION NUMBER: 09/474,432
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CURRENT FILING DATE: 2001-09-27
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TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleot FILE REFERENCE: MBHB00-831-F (400/009)
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PRIOR FILING DATE: 1998-04-29
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                                    2269 CCAGTCAAGTGGATGGC 2285
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1 CCCAUCAAGUGGAUGGC
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Beaudry, Amber
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Adamic, Jasenka Matulic
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                                                                                         Score 13.8;
Pred. No. 1
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Pred. No. 1.
                                                                         Mismatches
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RESULT 79 US-09-780-533A-844/c

Sequence 844, Application US/09780533A Publication No. US20030060611A1

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US-09-877-478-1296
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Best Local S
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Best Local Similarity
Matches 15; Conserv
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SEQ ID NO 844
                                                                        Matches
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                                                                                                                                            TYPE: RNA
ORGANISM: Hepatitis B virus
-09-877-478-1296
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CURRENT FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: US 60/181,797
PRIOR FILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 6679
                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 6586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication FILE REFERENCE: MBHB00-845-H (400/029) CURRENT APPLICATION NUMBER: US/09/8077,478 CURRENT FILING DATE: 2001-12-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Haeberli, Pete
TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
FILE REFERENCE: MBHB00,878-A (400/011)
                                                                                                                                                                                                                                            SOFTWARE: PatentIn version 3.0
                                                                                                                                                                                                                                                                                 PRIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: US 07/882,712 PRIOR FILING DATE: 1992-05-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Ribozyme Pharmaceuticals, Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Ribozyme Pharmaceuticals, Inc.
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ORGANISM: Homo sapiens
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                                                                                                                                                                                                       ENGTH: 17
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FILING DATE: 2000-08-09
APPLICATION NUMBER: US 09/696,347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US 09/531,025 FILING DATE: 2000-03-20
                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US 09/436,430
                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1994-02-07
APPLICATION NUMBER: US 08/433,993
                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 2000-10-24
APPLICATION NUMBER: US 08/193,627
                                                                                                                                                                                                                                                                                                                      FILING DATE:
                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US 08/434,504
                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 1995-05-04
                                   2191 ATGAAAATAGCAGACTT 2207
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                                                                                         Similarity
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AUGAAAACAGGAGACUU 17
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Morrissey, Dave
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Blatt, Larry
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Chowrira, Bharat
                                                                    Conservative
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                                                                    Score 13.8; DB 1;
Pred. No. 1.2e+02;
3; Mismatches 2;
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Pred. No. 1.
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US-09-776-474-430
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US-09-848-754A-2480
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GENERAL INFORMATION:
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CURRENT APPLICATION NUMBER: US/09/848,754A
CURRENT FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 9645
                              APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent
TITLE OF INVENTION: Enzyme
                                                                                                                 APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Jarvis, Thale
APPLICANT: Booher, Robert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: Enzymatic Nucleic Acid Treat TITLE OF INVENTION: Levels of Epidermal Growth FILE REFERENCE: MBHB00-958-I (400/018) CURRENT APPLICATION NUMBER: US/09/8448,754A CURRENT FILING DATE: 2001-05-03 NUMBER OF SEQ ID NOS: 9645
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 17
TYPE: RNA
                                                                APPLICANT:
                                                                                APPLICANT:
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CURRENT APPLICATION NUMBER: US/09/776,474
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ORGANISM: Homo sapiens
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Local Similarity 70.6%;
hes 12; Conservative
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Local Similarity 70.6%;
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                                                                                  Fattaey, Ali
                                                                                                    Holman, Patricia
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                ON: Enzyme
MBHB00-955-A (400/008)
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Enzymatic Nucleic Acid Treatment of Diseases
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Pred. No. 1.2e+02;
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Pred. No. 1
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                                                    Inhibition of
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RESULT 85
US-09-780-164-921
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Best Local Similarity
Matches 12; Conserve
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FILE REFERENCE: MBHB00,918-A 400/027
CURRENT APPLICATION NUMBER: US/09/930,423
CURRENT FILING DATE: 2001-08-15
NUMBER OF SEQ ID NOS: 4553
SOFTWARE: Patentin version 3.0
SEQ ID NO 1394
LENGTH- 17
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; TYPE: RNA
; ORGANISM: Homo Sapiens
US-09-930-423-1394
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US-09-930-423-1394
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                             SEQ ID NO 921
LENGTH: 17
TYPE: RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: US 60/179,983
PRIOR FILING DATE: 2000-03-02
NUMBER OF SEQ ID NOS: 2992
SOFTWARE: PatentIn version 3.0
SEQ ID NO 430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1394, Application US/09930423 Publication No. US20030092003A1
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                                                                                                                                                                                                                                                                                 Sequence 921, Application US/09780164
Publication No. US20030092646A1
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Best Local Similarity
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ORGANISM: Homo sapiens
                                                                                                  PRIOR APPLICATION NUMBER: 60/185,516
PRIOR FILING DATE: 2000-02-28
NUMBER OF COO.
                                                                                                                                               CURRENT APPLICATION NUMBER: US/09/780,164
CURRENT FILING DATE: 2001-02-09
                                                                                                                                                                                                                    APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
                                                                                              NUMBER OF SEQ ID NOS: 2603
                                                                                                                                                                                           APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent for the Inhibition of CD20
                                                                                SOFTWARE: PatentIn version 3.0
                                                                                                                                                                                    FILE REFERENCE: 400/010
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                    2025 GGAGTACTCCTATGACA 2041
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al Similarity 64.7%;
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Pred. No. 1.2e+02;
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Pred. No. 1.
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US-09-745-237A-1394
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; ORGANISM: Homo sapiens
US-09-780-164-1056
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Best Local S
Matches 12
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SEQ ID NO 1194
LENGTH: 17
TYPE: RNA
ORGANISM: Homo sapiens
                                                                Best Local Similarity
Matches 12; Conserv
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Best Local Similarity
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Publication No. US20030092646A1
                                                                                                                                                                                                                                        APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
FILE REFERENCE: 400/000 (MBHB00-918-A)
CURRENT APPLICATION NUMBER: US/09/745,237A
CURRENT FILING DATE: 2002-04-15
NUMBER OF SEQ ID NOS: 4550
                                                                                                                                                                                                                                                                                                                             APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
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CURRENT APPLICATION NUMBER: US/09/780,164
CURRENT FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/185,516
PRIOR FILING DATE: 2000-02-28
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APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent for the Inhibition of CD20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR FILING DATE: 2000-02-28 NUMBER OF SEQ ID NOS: 2603
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                              2025 GGAGTACTCCTATGACA 2041
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GGAGUACAACUAUGACA
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                                                                               1.0%;
                                                                Score 13.8; DB 1;
Pred. No. 1.2e+02;
3; Mismatches 2;
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Pred. No. 1.2e
3; Mismatches
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Pred. No. 1.2e+02;
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1.2e+02;
                                                                1.2e+02;
hes 2;
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US-10-061-201-122/c ; Sequence 122, Application US/10061201 ; Publication No. US20030166229A1

RESULT 88

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CURRENT FILING DATE: 2002-01-30
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ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                             PPLICANT: Shannon,
ITLE OF INVENTION:
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APPLICATION NUMBER: PCT/US01/00664
OTT.TNG DATE: 2001-01-30/HE01/00669
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APPLICATION NUMBER: PCT/US01/00669
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                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: PCT/US01/00667
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: PCT/US01/00663
                                                                                                                                        APPLICATION NUMBER: PCT/US01/00668 FILING DATE: 2001-01-30
                                                                                                                                                                                  APPLICATION NUMBER: PCT/US01/00665 FILING DATE: 2001-01-30
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FILING DATE: 2001-01-30
                                                                                APPLICATION NUMBER: PCT/US01/00670
                                                                                                     FILING DATE: 2001-01-30
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                                         APPLICATION NUMBER: US 09/864,761
                                                              FILING DATE:
                                                                                                                        APPLICATION NUMBER: PCT/US01/00663
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NUMBER: US 60/328,205
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Pred. No. 1.
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; ORGANISM: Homo sapiens
US-10-339-782-153
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Matches 15; Conserv
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LENGTH: 17
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SEQ ID NO 123
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Best Local Similarity
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                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/10/060,756A
CURRENT FILING DATE: 2002-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR APPLICATION NUMBER: DCT/US01/00664
PRIOR FILING DATE: 2001-01-30
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NUMBER OF SEQ ID NOS: 495
SOFTWARE: PatentIn version 3.1
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CURRENT APPLICATION NUMBER: US/10/339,782
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Goodman, Laurie J
APPLICANT: Bowen, Benjamin A
TITLE OF INVENTION: Identification of Specific Biomarkers for Breast Cancer Cells
                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Zhang, Jian
TITLE OF INVENTION: HUMAN TESTIS EXPRESSED PATCHED LIKE PROTEIN
FILE REFERENCE: PB0177
                                  PRIOR APPLICATION NUMBER: US 09/864,761 PRIOR FILING DATE: 2001-05-23
                                                                                         PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
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PRIOR APPLICATION NUMBER: PCT/US01/00665
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PRIOR APPLICATION NUMBER: US 60/327,898
                                                                        PRIOR FILING DATE: 2001-01-30
                                                                                                                                 PRIOR APPLICATION NUMBER: PCT/US01/00668
                                                                                                                                                        PRIOR FILING DATE: 2001-01-30
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b. US20030166026A1
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88.2%;
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Pred. No. 1.
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Pred. No. 1
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RESULT 93
US-10-163-552-303/c
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; ORGANISM: Homo sapiens
US-10-060-756A-1676
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                                                                                                                                                      Sequence 303, Application US/10163552 Publication No. US20030105051A1 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 1676
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Best Local Similarity 88.2%;
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Best Local Similarity
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APPLICANT: Ribozyme Pharmaceuticals, Inc. APPLICANT: McSwiggen, Jim TITLE OF INVENTION: Nucleic acid treatment TITLE OF INVENTION: HER2
FILE REFERENCE: MHHB01-1653-A, (400/014)
CURRENT FILING DATE: 2002-06-06
CURRENT FILING DATE: 2002-06-06
NUMBER OF SEQ ID NOS: 1997
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CURRENT FILING DATE: 2002-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR PILING DATE: 2001-01-30
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TITLE OF INVENTION: HUMAN TESTIS EXPRESSED PATCHED LIKE PROTEIN
FILE REFERENCE: PB0177
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Aeomica Sequence Listing Engine
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TYPE: DNA
ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US 09/864,761 FILING DATE: 2001-05-23
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Pred. No. 1.
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US-09-280-030-8
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US-10-163-552-666
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                                                                                                               TITLE OF INVENTION: DNAS ENCODING NEW FUSION PROTEINS AND PROCESSES FOR TITLE OF INVENTION: PREPARING USEFUL POLYPEPTIDES THROUGH EXPRESSION OF TITLE OF INVENTION: DATE FILE REFERENCE: 382.1026
CURRENT FILING DATE: 1999-03-26
EARLIER APPLICATION NUMBER: US/09/280,030A
CURRENT FILING DATE: 1999-03-26
EARLIER APPLICATION NUMBER: JP10-87339/1998
EARLIER FILING DATE: 1998-03-31
NUMBER OF SEQ ID NOS: 66
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn version 3.0
SEQ ID NO 666
LENGTH: 17
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Best Local Similarity
Matches 15; Conserv
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LENGTH: 17
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                                                                                                                                                                                                                                                                                                            APPLICANT: Sato, Seiji
APPLICANT: Higashikuni, Naohiko
APPLICANT: Kudo, Toshiyuki
APPLICANT: Kondo, Masaaki
                                                                                  TYPE: DNA
                OTHER INFORMATION: Description of Artificial OTHER INFORMATION: a forward oligonucleotide
                                                    ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: RNA
                                                                                                    LENGTH: 18
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o. US20030105051A1
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Pred. No. 1.2e
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Query Match

Score 13.8;

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US-09-280-030-9
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Publication No.
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Best Local
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                                                     PRIOR FILING DATE: 2001-04-20
PRIOR APPLICATION NUMBER: JP 12-126340
PRIOR PILING DATE: 2000-04-21
PRIOR APPLICATION NUMBER: JP 12-205587
PRIOR FILING DATE: 2000-07-03
PRIOR APPLICATION NUMBER: JP 12-247962
PRIOR APPLICATION NUMBER: JP 12-247962
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CURRENT APPLICATION NUMBER: US/09/280,030A
CURRENT FILING DATE: 1999-03-26
EARLIER FILING DATE: 1999-03-31
EARLIER FILING DATE: 1998-03-31
NUMBER OF SEQ ID NOS: 66
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APPLICANT: Higashikuni, Nac
APPLICANT: Kudo, Toshiyuki
APPLICANT: Kondo, Masaaki
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PRIOR APPLICATION NUMBER: JP 12-395050 PRIOR FILING DATE: 2000-12-22
                                                                                                                                                                                     CURRENT FILING DATE: 2002-10-17
PRIOR APPLICATION NUMBER: PCT/JP01/03399
                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/10/257,848
                                                                                                                                                                                                                                                  APPLICANT: OGI, Kazuhiro
TITLE OF INVENTION: No. US20030158381A1el Insulin/IGF/Relaxin Family Polypeptide and
FILE REFERENCE: 2717 USOP
                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
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TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
                                            FILING DATE: 2000-08-10
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KIZAWA, Hideki
HARADA, Masataka
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Pred. No. 1.4e+02;
0; Mismatches 2;
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; OTHER INFORMATION: Primer US-10-257-848-13
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US-10-004-551-43/c
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US-10-004-551-40
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APPLICANT: SHIMKETS, RICHARD A
APPLICANT: FERNANDES, ELMA
TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES
FILE REFERENCE: 15966-559
                                                                                                                                                               SEQ ID NO 43
LENGTH: 18
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Matches 15; Conservative
Best Local Similarity Matches 15; Conserv
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Publication No. US20030004310A1
                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity
                                                                                                                                                                                                                                     APPLICANT: FERNANDES, ELMA TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES ENCODED THEREBY FILE REFERENCE: 15966-559

CURRENT APPLICATION NUMBER: US/10/004,551

CURRENT FILING DATE: 2001-12-05

PRIOR APPLICATION NUMBER: 09/635,949

PRIOR FILING DATE: 2000-08-10
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PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 110
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CURRENT FILING DATE: 2001-12-05
                                                                                                                                                                                                     SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 110
                                                                                                                                                                                                                                                                                                                                                   APPLICANT: SHIMKETS, RICHARD A APPLICANT: FERNANDES, ELMA
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ORGANISM: Artificial Sequence
FEATURE:
                                                                                          OTHER INFORMATION: Description of Artificial Sequence: PCR PRIMER
                                                                                                                             ORGANISM: Artificial Sequence
                                                                                                                                                 TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: Description of Artificial Sequence: PCR PRIMER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
                                                                                                           FEATURE:
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Score 13.8; DB 1;
Pred. No. 1.4e+02;
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Pred. No. 1.4e+02
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Pred. No. 1.4e+02;
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US-09-274-553D-999/c
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; OTHER INFORMATION: Description of Artificial Sequence:
US-09-504-231A-999
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US-09-504-231A-999/c
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                                             APPLICANT: PAYCO, Pamela
APPLICANT: PAYCO, Pamela
APPLICANT: Macejak, Dennis
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
TITLE OF INVENTION: HERATITIS C VIRUS INFECTION
FILE REFERENCE: rpi 247/82
CURRENT APPLICATION NUMBER: US/09/274,553D
CURRENT FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 09/257,608
PRIOR FILING DATE: 1999-02-24
PRIOR FILING DATE: 1999-03-23
PRIOR FILING DATE: 1998-04-27
NUMBER: 60/100,842
PRIOR FILING DATE: 1998-04-27
NUMBER: 05 SEQ ID NOS: 3148
PRIOR FILING DATE: 1998-04-27
NUMBER OF SEQ ID NOS: 3148
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 999, Application US/09274553D Patent No. US20020082225A1
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                 SOFTWARE: PatentIn version 3.0 EQ ID NO 999
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PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 09/257,608
PRIOR FILING DATE: 1999-02-24
PRIOR APPLICATION NUMBER: 60/100,842
PRIOR FILING DATE: 1998-09-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Macejak, Dennis
TITLE OF INVENTION: EEXTMATIC NUCLBIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
TITLE OF INVENTION: HEPATITIS C VIRUS INFECTION
FILE REFERENCE: rpi 247/282
CURRENT APPLICATION NUMBER: US/09/504,231A
CURRENT FILING DATE: 2000-02-15
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PRIOR FILING DATE: 1998-04-27
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TYPE: RNA
ORGANISM: Artificial Sequence
TH: 15
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Roberts, Beth
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Pred. No. 1.1e+02;
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US-10-277-494-73
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US-10-277-494-3
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Best Local Similarity
Thickes 14; Conserva
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                                                                                                                                                                   TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or conditions Related To Level:
TITLE OF INVENTION: Epidermal Growth Factor Receptors
FILE REFERENCE: MBHB00-958-K (400/064)
CURRENT APPLICATION NUMBER: US/10/277,494
CURRENT FILING DATE: 2002-10-21
NUMBER OF SEQ ID NOS: 446
SOFTWARE: PatentIn version 3.0
SEQ ID NO 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 3
LENGTH: 15
TYPE: RNA
                                                                  Query Match
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                                                                                                                                                                                                                                                                                                                                                                 Sequence 73, Application US/10277494 Publication No. US20030186909A1
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Matches 10; Conservative
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APPLICANT: Ribozyme Pharmaceuticals,
APPLICANT: McSwiggen, Jim
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                                     Matches
                                                   Best Local Similarity
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CURRENT FILING DATE: 2002-10-21
NUMBER OF SEQ ID NOS: 446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or conditions Related TITLE OF INVENTION: Epidermal Growth Factor Receptors FILE REFERENCE; MBHB00-958-K (400/064)
                                                                                                                                                                                                                                                                                                                APPLICANT: Ribozyme Pharmaceuticals, Inc. APPLICANT: McSwiggen, Jim
                                                                                                                  LENGTH: 15
TYPE: RNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: PatentIn version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: RNA
ORGANISM: Homo sapiens
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ORGANISM: Artificial Sequence
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 2317 CATCAGAGTGATGTC 2331
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                                   Conservative
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                                                  Score 13.4; DB 1;
Pred. No. 1.1e+02;
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Pred. No. 1.1e+02;
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Pred. No. 1.1e+02;
                                   Mismatches
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                                                                Length 15;
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; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-8354
                                                                                                                                                    RESULT 105
US-09-866-108-8355/c
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                                                                                                              Sequence 8355, Application US/09866108 Patent No. US20020048800A1
                                                                                                                                                                                                                                                                                                                         Query Match
Best Local S
                                                                                            GENERAL INFORMATION:
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PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
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CURRENT FILING DATE: 2001-05-25
                                   APPLICANT: GU, Yizhong
APPLICANT: JI, Yongga
APPLICANT: PENN, Shar:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: Aeomica Sequence Listing Engine
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 2000-09-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 2000-09-21
APPLICATION NUMBER: US 60/266,860
FILING DATE: 2001-02-05
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: PCT/US01/00667
                                                                                                                                                                                                                                                                    1573 TCCAGCTCCTCCATG 1587
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JI, Yonggang
JI, Yonggang
PENN, Sharron C
HANZEL, David F
RANK, David R.
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HANZEL, David K.
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Best Local
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                                                          CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 60/207,456
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PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
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PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
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CURRENT FILING DATE: 2001-05-25
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB :
PRIOR FILING DATE: 2000-10-04
                                                                                                                     FILE REFERENCE: AEOMICA-7
                                                                                                                                            APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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PRIOR APPLICATION NUMBER: US 60/266,860
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ORGANISM: Homo
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PPLICANT: SHANNON, Mark
TILE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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APPLICATION NUMBER: US 60/234,687
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PENN, Sharron G
HANZEL, David K
RANK, David R.
CHEN, Wensheng
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  NUMBER: GB 24263.6
2000-10-04
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Pred. No. 1
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RESULT 107
US-09-866-108-8373/c
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APPLICANT: HANZEL, David K.
APPLICANT: RANK, David R.
APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN
FILE REFERENCE: AEOMICA-7
CURRENT FILING DATE: 2001-05-25
CURRENT FILING DATE: 2001-05-25
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Best Local 9
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PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
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APPLICANT: JI, Yonggai
APPLICANT: PENN, Shar:
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NUMBER OF SEQ ID NOS: 15752
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                                               OR APPLICATION NUMBER: US 60/236,359
OR FILING DATE: 2000-09-27
OR APPLICATION NUMBER: PCT/US01/00666
OR FILING DATE: 2001-01-30
OR APPLICATION NUMBER: PCT/US01/00667
OR FILING DATE: 2001-01-30
OR APPLICATION NUMBER: PCT/US01/00664
OR APPLICATION NUMBER: PCT/US01/00664
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FILING DATE: 2000-10-04
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00669
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APPLICATION NUMBER: PCT/US01/00661
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FILING DATE: 2001-01-30
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l Similarity 93.3%;
14; Conservation
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Pred. No. 1.4e+02;
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PRIOR FILING DATE: 2000-10-04
PRIOR PPLICATION NUMBER: US 60/236,359
PRIOR PRILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR PRILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR PILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00669
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SOFTWARE: Aeoma
; SEQ ID NO 8373
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Matches
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PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR PILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
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CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
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PRIOR APPLICATION NUMBER: US 60/266,860
PRIOR FILING DATE: 2001-02-05
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PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
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IITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
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ORGANISM: Homo sapiens
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nes 14; Conserv
                                          APPLICATION NUMBER: PCT/US01/00662
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CATION NUMBER: PCT/US01/00661
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93.3%; Pred. No. 1.
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US-09-866-108-8376
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Best Local
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PRIOR FILING DATE: 2001-02-05
NUMBER OF SEQ ID NOS: 15752
SOFTWARE: Accession
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APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
                                      PRIOR APPLICATION NUMBER: US 60/266,860 PRIOR FILING DATE: 2001-02-05
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SOFTWARE: Aeomica Sequence Listing Engine
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                                                                              FILING DATE: 2000-09-21
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APPLICATION NUMBER: PCT/US01/00669
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NN, Sharron G.
NZEL, David K.
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Pred. No. 1.4e+02;
0; Mismatches 1;
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; TYPE: DNA; Homo sapiens US-09-866-108-8943
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US-09-866-108-8944
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US-09-866-108-8944
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Patent No. US2002004
GENERAL INFORMATION:
                                                       Best Local Similarity Matches 14; Conser
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Best Local Similarity
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
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CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
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PRIOR FILING DATE: 2000-05-26
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PRIOR FILING DATE: 2001-01-30
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
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1355 CAGCGCCTGGAAGAG 1369
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PENN, Sharron (
HANZEL, David )
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                                                       Conservative
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RESULT 112
US-09-866-108-9000
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; ORGANISM: Homo sapiens
US-09-866-108-8945
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                                                       Sequence 9000, Application US/09866108 Patent No. US20020048800A1
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Best Local Similarity
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PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
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CURRENT FILING DATE: 2001-05-25
APPLICANT: GU, Yizhong
APPLICANT: JI, Yonggang
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
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APPLICATION NUMBER: US 60/266,860
FILING DATE: 2001-02-05
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FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00664
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FILING DATE: 2001-01-30
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                                       INFORMATION:
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Pred. No. 1.
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RESULT 113
US-09-866-108-9003
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Best Local Similarity
Matches 14; Conserva
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PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR FILING DATE: 2000-09-27
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
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                                                                                APPLICANT: GU, Yizhong
APPLICANT: JI, Yonggang
APPLICANT: PENN, Sharron G.
APPLICANT: HANZEL, David K.
APPLICANT: HANZEL, David K.
APPLICANT: KANK, David R.
APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
                      FILE REFERENCE: AEOMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
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PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 60/266,860
PRIOR FILING DATE: 2001-02-05
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CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 60/207,456
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PRIOR FILING DATE: 2001-01-30
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
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PRIOR FILING DATE: 2001-01-30
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PRIOR FILING DATE: 2001-01-30
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APPLICATION NUMBER: PCT/US01/00670
FILING DATE: 2001-01-30
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VENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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HANZEL, David
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; ORGANISM: Homo sapiens
US-09-866-108-9003
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Publication No. US20030004122A1
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                                                                                                                                APPLICANT: Sweedler, Dave
APPLICANT: Sweedler, Dave
APPLICANT: Sweedler, Dave
APPLICANT: Zinnen, Shawn
TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleot
FILE REFERENCE: MBHB00-831-F (400/009)
CURRENT APPLICATION NUMBER: US/09/825,805
CURRENT FILING DATE: 2001-09-27
ERIOR APPLICATION NUMBER: U9/578,223
PRIOR FILING DATE: 2000-05-23
RRIOR FILING DATE: 2000-05-23
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                                                             PRIOR FILING DATE: 1999-12-30
PRIOR APPLICATION NUMBER: 09/474,432
PRIOR FILING DATE: 1999-12-29
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APPLICANT: Beigelman, Leo
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APPLICATION NUMBER: PCT/US01/00664
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                      APPLICATION NUMBER: 09/301,511 FILING DATE: 1999-04-28
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APPLICATION NUMBER: 09/186,675
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; Sequence 2376, Application US/09780533A
; Publication No. US20030060611A1
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APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
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SEQ ID NO 648
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Best Local Similarity
Matches 11; Conserv
SEQ ID NO 2376
LENGTH: 17
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                                                         APPLICANT: McSwigen, Jim
APPLICANT: Chowrira, Bharat
APPLICANT: Haeberli, Pete
TITLE OF INVENTION: Method and Reagent for the Inhibition of NOCO Gene
FILE REFERENCE: MBHB00,878-A (400/011)
CURRENT APPLICATION NUMBER: US/09/780,533A
CURRENT FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: US 60/181,797
PRIOR PILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 6679
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NUMBER OF SEQ ID NOS: 6679
SOFTWARE: Patentin version 3.0
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CURRENT FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: US 60/181,797
PRIOR APPLICATION NUMBER: US 60/181,797
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APPLICANT: Chowrira, Bharat
APPLICANT: Habberli, Pete
TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
FILE REFERENCE: MBHB00,878-A (400/011)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
APPLICANT: Chowriza, Bharat
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PRIOR APPLICATION NUMBER: 60/064,866
PRIOR FILING DATE: 1997-11-05
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                                       SOFTWARE: PatentIn version 3.0
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73.3%;
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Pred. No. 1.4e+02;
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; TYPE: RNA
; ORGANISM: Hepatitis B virus
US-09-877-478-2182
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US-09-877-478-2182
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; ORGANISM: Homo sapiens
US-09-780-533A-2376
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SOFTWARE: PatentIn version
SEQ ID NO 2182
                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                       Sequence 2527, Application US/09877478 Publication No. US20030068301A1
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Best Local (
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Best Local Similarity 93.3%;
Matches 14; Conservative
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                                                                                                      APPLICANT: Ribozyme Pharmaceuticals, APPLICANT: Draper, Kenneth APPLICANT: Blatt, Larry
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APPLICANT: McKrissey, Dave
TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication
FILE REFERENCE: MSHB00-845-H (400/029)
CURRENT APPLICATION NUMBER: US/09/877,478
CURRENT FILING DATE: 2001-12-31
APPLICANT: McSwiggen, Jim
APPLICANT: McTrissey, Dave
TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication
FILE REFERENCE: MBHB00-845-H (400/029)
CURRENT APPLICATION NUMBER: US/09/877,478
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PRIOR FILING DATE: 2000-08-09
PRIOR APPLICATION NUMBER: US 09/696,347
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 08/193,627
PRIOR FILING DATE: 1994-02-07
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PRIOR APPLICATION NUMBER: US 09/531,025
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FILING DATE: 1995-05-04
APPLICATION NUMBER: US 08/434,504
FILING DATE: 1995-05-04
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Blatt, Larry
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o. US20030068301A1
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66.7%;
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Pred. No. 1.4e+02;
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Pred. No. 1.4e+02;
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; ORGANISM: Homo sapiens
US-09-792-818-96
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US-09-792-818-96/c
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; ORGANISM: Hepatitis B virus
US-09-877-478-2527
                                                                              Matches
                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                    SOFTWARE: PatentIn version 3.0 SEQ ID NO 96
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Best Local (
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TITLE OF INVENTION: Method and Reagent for
TITLE OF INVENTION: (GRID) Gene
FILE REFERENCE: MBHB00-901-A (400/013)
FURRENT APPLICATION NUMBER: US/09/792,818
CURRENT FILLING DATE: 2001-02-23
NUMBER OF SEQ ID NOS: 2304
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PRIOR FILING DATE: 1995-05-04
PRIOR APPLICATION NUMBER: US 09/436,430
PRIOR FILING DATE: 1999-11-08
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PRIOR APPLICATION NUMBER: US 08/433,993
PRIOR FILING DATE: 1995-05-04
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PRIOR APPLICATION NUMBER: US 07/882,712
PRIOR FILING DATE: 1992-05-14
PRIOR APPLICATION NUMBER: US 09/531,025
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PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 08/193,627
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PRIOR APPLICATION NUMBER: US 09/636,385
PRIOR FILING DATE: 2000-08-09
                                                                                                                                                                                                                     ENGTH: 17
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nes 10; Conserv
                      1868 TGTCAGAGATGGAGA 1882
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16 TGACAGAGATGGAGA 2
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McSwiggen, Jim
Hamblin, Paul
                                                                            Conservative
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                                                                                             1.0%;
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                                                                          Score 13.4; DB 1;
Pred. No. 1.4e+02;
0; Mismatches 1;
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RESULT 120 US-09-792-818-284/c

Sequence 284, Application US/09792818 Publication No. US20030134806A1 GENERAL INFORMATION:

APPLICANT: Ribozyme

Pharmaceuticals, Inc

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US-10-230-006-164
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                                                                                                                                                                                                                                                                        RESULT 122
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; ORGANISM: Homo sapiens
US-10-238-700-3194
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; ORGANISM: Homo sapiens
US-09-792-818-284
                                                                                                                                                                            Sequence 164, Application US/10230006 Publication No. US20030191077A1 GENERAL INFORMATION:
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SEQ ID NO 284
LENGTH: 17
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CURRENT FILING DATE: 2002-09-18
PRIOR APPLICATION NUMBER: PCT/US 02/16840
PRIOR FILING DATE: 2002-05-29
PRIOR APPLICATION NUMBER: US 60/318,471
PRIOR FILING DATE: 2001-09-10
NUMBER OF SEQ ID NOS: 4666
       APPLICANT: FOSNAUGH, KATHY
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC CONDIFILE REFERENCE: 400/056 (MBHB01-1110)
CURRENT APPLICATION NUMBER: US/10/230,006
CURRENT FILING DATE: 2002-11-18
CURRENT FILING DATE: 2002-11-18
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                                                                                                          APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Fosnaugh, Kathy
APPLICANT: McSwiggen, Jim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: McSwiggen, James
TITLE OF INVENTION: Nucleic Acid Treatment
FILE REFERENCE: 400/057 (MBHB01-1158-A)
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APPLICATION NUMBER: US 60/315,315
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llarity 93.3%;
Conservative.
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Best Local Similarity
Matches 13; Conserva
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; ORGANISM: Homo sapiens
US-10-230-006-164
                                                                       ; ORGANISM: Homo sapiens US-10-230-006-2205
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US-10-230-006-2204/c
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APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Fosnaugh, Kathy
APPLICANT: McSwiggen, Jim
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LENGTH: 17
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                                 Query Match
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APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC CONDI
FILE REFERENCE: 400/056 (MBHB01-1110)
CURRENT APPLICATION NUMBER: US/0/230,006
CURRENT FILING DATE: 2002-11-18
PRIOR APPLICATION NUMBER: US 60/315,315
PRIOR FILING DATE: 2001-08-28
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                                                                                                                                                                                    FILE REFERENCE: 400/056 (MBHB01-1110)
CURRENT APPLICATION NUMBER: US/10/230,006
CURRENT FILING DATE: 2002-11-18
PRIOR APPLICATION NUMBER: US 60/315,315
PRIOR FILING DATE: 2001-08-28
NUMBER OF SEQ ID NOS: 2678
                                                                                                                                                                                                                                                                                                   APPLICANT: FOSDAUGH, Kathy
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC CONDI
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                                                                                                           LENGTH: 17
TYPE: RNA
                                                                                                                                                                      SOFTWARE: PatentIn version 3.0
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llarity 93.3%;
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Pred. No. 1
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Pred. No. 1.4e+02
               Score 13.4;
Pred. No. 1.
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ORGANISM: Human
-10-027-632-58632
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                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 60/193,483
                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Polymorphisms in the Human Genome
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CURRENT FILING DATE: 2002-04-30
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PRIOR APPLICATION NUMBER: US 60/193,483
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CURRENT FILING DATE: 2002-04-30
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                                                                                                                                                APPLICATION NUMBER: US 60/193,483
FILING DATE: 2000-03-29
APPLICATION NUMBER: US 60/185,218
FILING DATE: 2000-02-24
                                                                              APPLICATION NUMBER: US 60/167,363
FILING DATE: 1999-11-23
APPLICATION NUMBER: US 60/156,358
              APPLICATION NUMBER: US 60/146,002
FILING DATE: 1999-08-09
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APPLICATION NUMBER: US 60/185,218
FILING DATE: 2000-02-24
                                                             FILING DATE: 1999-09-28
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NOS:
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US-10-027-632-58640/c
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; ORGANISM: Human
US-10-027-632-58632
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GENERAL INFORMATION:

APPLICANT: Wang, David G.

TITLE OF INVENTION: Identification and Mapping of Single Nucleotide

TITLE OF INVENTION: Polymorphisms in the Human Genome
                                                                                   Sequence 58640, Application US/10027632
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Best Local Similarity
Matches 14; Conserv
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PRIOR FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR FILING DATE: 2000-04-20
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CURRENT FILING DATE: 2002-04-30
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PRIOR APPLICATION NUMBER: US 60/185,218
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Pred. No. 1.
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Pred. No. 1.
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FILE REFERENCE: 108827,129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-07-12

PRIOR APPLICATION NUMBER: US 60/198,676 PRIOR FILING DATE: 2000-04-20

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Sequence 667, Application US/10163552
Publication No. US20030105051A1
GENERAL INFORMATION:
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US-10-163-552-289
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Best Local S
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                                                            SEQ ID NO 667
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Nucleic acid treatment of diseases or conditions related to level
TITLE OF INVENTION: HER2
TITLE OF INVENTION: HER2
TITLE REFERENCE: MBHB01-1653-A (400/014)
CURRENT APPLICATION NUMBER: US/10/163,552
CURRENT FILING DATE: 2002-06-06
NUMBER OF SEQ ID NOS: 1997
NUMBER OF SEQ ID NOS: 1997
                                                                                                                    APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Nucleic acid treatment
TITLE OF INVENTION: HER2
FILE REFERENCE: MHHB01-1653-A (400/014)
CURRENT APPLICATION UNDBER: US/10/163,552
CURRENT FILING DATE: 2002-06-06
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PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
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                                                                             NUMBER OF SEQ ID NOS: 1997
SOFTWARE: PatentIn version 3.0
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TYPE: RNA
ORGANISM: Homo sapiens
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ORGANISM: Human
                        TYPE: RA
ORGANISM: Homo'sapiens
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APPLICATION NUMBER: US 60/185,218
FILING DATE: 2000-02-24
APPLICATION NUMBER: US 60/167,363
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APPLICATION NUMBER: US 60/156,358
FILING DATE: 1999-09-28
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APPLICANT: McSwiggen, Jim
ITILE OF INVENTION: Nucleic acid treatment of
ITILE OF INVENTION: HER2
ITILE OF INVENTION: MGHHBO1-1653-A. (400/014)
CURRENT APPLICATION NUMBER: US/10/163,552
CURRENT FILING DATE: 2002-06-06
NUMBER OF SEQ ID NOS: 1997
SOFTWARE: PatentIn version 3.0
SEQ ID NO 678
LENGTH: 17
TYPE: RNA
ORGANISM: Homo sapiens
US-10-163-552-678
                                                    Query Match
Best Local Similarity
Watches 10; Conserve
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US-09-848-754A-9124
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APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Ribozyme Pharmaceuticals, Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate-
TITLE OF INVENTION: Levels of Epidermal Growth Factor Receptors
FILE REFERENCE: MBHB00-958-I (400/018)
CURRENT APPLICATION NUMBER: US/09/848,754A
CURRENT FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 9645
SOFTWARE: PatentIn version 3.0
SEQ ID NO 9124
LENGTH: 13
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APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: McSwiggen, Jim
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Publication No. US20030073207A1
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Best Local Similarity
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                                                                                                                                                                                          TYPE: RNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                FEATURE:
                                 2273 TCAAGTGGATGGC 2285
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73.3%;
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Pred. No. 1.4e+02;
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Pred. No. 1.4e+02;
                                                                                        Score 13; DB
Pred. No. 97;
                                                                           Mismatches
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RESULT 133 US-10-277-494-54

Sequence 54, Application US/10277494

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. AFFLICANT: SI, ERWIN
APPLICANT: SI, ERWIN
APPLICANT: MORISETTE, JEAN
FITTL DOF INVENTION: OPPINEURIN NUCLEIC ACID MOLECULES AND USES
FILE REFERENCE: 13587.338
CURRENT PAPPLICATION NUMBER: US/10/091,281
CURRENT FILING DATE: 2002-03-06
NUMBER OF SEQ ID NOS: 463
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 150
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US-09-866-108-6887/c
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Best Local Similarity
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; ORGANISM: Homo sapiens
US-10-277-494-54
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                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                            Patent No.
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TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or
TITLE OF INVENTION: Epidermal Growth Factor Receptors
FILE REFERENCE: MeBHB00-958-K (400/064)
CURRENT APPLICATION NUMBER: US/10/277,494
CURRENT FILING DATE: 2002-10-21
                                                                                                                     APPLICANT:
                                  FILE REFERENCE: AEOMICA-
                                                APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
                                                                                                   APPLICANT:
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APPLICANT: JI, Yonggang
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APPLICANT: McSwiggen, Jim
                                                                                     APPLICANT:
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TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: Putative LYMF/TH1E47.01 motif
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APPLICATION NUMBER: US/09/866,108 FILING DATE: 2001-05-25
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                                                                             PENN, Sharron G.
HANZEL, David K.
RANK, David R.
CHEN, Wensheng
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100.0%; Pred. No. 1.4e+02;
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Pred. No.
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1.3e+02;
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                                                  HUMAN HEART
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Query Match
Best Local Similarity
Thes 13; Conserve
            APPLICANT: SHANNON, MARK
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN
FILE REFERENCE: AEOMICA-7
FULE REFERENCE: AEOMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
ERIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
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US-09-866-108-6892/c
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; ORGANISM: Homo sapiens
US-09-866-108-6887
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FILING DATE: 2001-01-30
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APPLICATION NUMBER: PCT/US01/00663
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APPLICATION NUMBER: GB 24263.6
APPLICATION NUMBER: PCT/US01/00667
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PENN, Sharron G.
HANZEL, David K.
RANK, David R.
CHEN, Wensheng
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; ORGANISM: Homo sapiens
US-09-866-108-6892
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SEQ ID NO 6892
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PRIOR FILING DATE: 2000-05-26
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ITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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FILING DATE: 2000-09-27
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APPLICATION NUMBER: PCT/US01/00669
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HANZEL, David K.
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CURRENT APPLICATION NUMBER: US/09/866,108
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PRIOR APPLICATION NUMBER: US 60/207,456
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PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 60/266,860
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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PRIOR APPLICATION NUMBER: GB 24263.6
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APPLICATION NUMBER: PCT/US01/00662
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PENN, Sharron
HANZEL, David
CATION NUMBER: US 60/266,860
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; ORGANISM: Homo sapiens
US-09-866-108-8947
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Query Match
Best Local Similarity
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SOFTWARE: Aeomica Sequence Listing Engine
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ENGTH: 17
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OR FILING DATE: 2001-01-30
OR APPLICATION NUMBER: PCT/US01/00664
OR FILING DATE: 2001-01-30
OR APPLICATION NUMBER: PCT/US01/00669
OR FILING DATE: 2001-01-30
OR APPLICATION NUMBER: PCT/US01/00665
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FILING DATE: 2001-01-30
APPLICATION NUMBER: US 60/234,687
FILING DATE: 2000-09-21
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INVENTION: MYOSIN-LIKE GENE EXPRESSED
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US20020048800A1
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Query Match
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US-09-866-108-9031
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US-09-866-108-9031

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PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR PILING DATE: 2001-01-30
PRIOR PILING DATE: 2001-01-30
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SEQ ID NO 9031
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CURRENT FILING DATE: 2001-05-25
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PRIOR FILING DATE: 2000-05-26
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APPLICATION NUMBER: US 60/266,860
FILING DATE: 2001-02-05
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RESULT 141 US-09-866-108-9032

Sequence 9032, Application US/09866108

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; ORGANISM: Homo sapiens
US-09-866-108-9032
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PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
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PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263.6
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CURRENT FILING DATE: 2001-05-25
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APPLICANT: SHANNON, MARK
TITLE OF INVENTION: MOSSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
                                                                               APPLICANT:
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o. US20020048800A1
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INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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                          HANZEL, David K
RANK, David R.
CHEN, Wensheng
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PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR PILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
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TYPE: DNA
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PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
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PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE: AEOMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
                                                                                                                                                                                 FILE REFERENCE: AEOMICA-7
                                                      PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
                                                                                                 PRIOR APPLICATION NUMBER: US 60/207,456 PRIOR FILING DATE: 2000-05-26
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                                  PRIOR APPLICATION NUMBER: US 60/236,359
                                                                                                                                                                                                    APPLICANT: SHANNON, MARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: PCT/US01/00670
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APPLICATION NUMBER: US 60/234,687
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US 60/266,860
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 2000-09-21
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il Similarity 100.0%; Pred. No. 1.6e+
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                                                                                                                                                                                                                                             RANK, David R. CHEN, Wensheng
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PCT/US01/00666
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RESULT 144
US-09-961-077-748
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; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-9034
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 748, Application US/09961077 Publication No. US20030014775A1 GENERAL INFORMATION:
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Best Local Similarity
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FILING DATE: 2000-09-21
APPLICATION NUMBER: US 60/266,860
FILING DATE: 2001-02-05
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
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FILING DATE: 2001-01-30
                                                                                                                 COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 1263
                                                                                                                                                                                                                                                                                                                                             TITLE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: PCT/US01/00661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: PCT/US01/00662 FILING DATE: 2001-01-30
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                                                                                                                                                                    CITY: Los Angeles
STATE: California
                                                                                              MEDIUM TYPE: 3.5" Diskette,
                                                                                                                                 COUNTRY: U.S.A. ZIP: 90071-2066
                                                                                                                                                                                                                             STREET: 633 West Fifth Street
                                                                                                                                                                                                                                             ADDRESSEE: Lyon & Lyon
                                                                                                                                                                                                                                                                                                                                               QF
QF
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                                                                                                                                                                                                                                                                                                                       INVENTION: COMPOSITION AND METHODS MODULATION OF GENE EXPRI
                                                                                                                                                                                                                                                                                                                                                          Folkerts, Otto
Merlo, Donald J.
                                                                                                                                                                                                                                                                                                                                                                                              Skokut, Thomas A. Young, Scott A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Merlo,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Edington, Brent E. McSwiggen, James A.
                                                                                                                                                                                                       Suite 4700
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                                                                                                                                                                                                                                                                                                       IN PLANTS
                                                                                              1.44 Mb
                                                                                                                                                                                                                                                                                                                       ND METHODS FOR GENE EXPRESSION
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US-09-780-533A-1806/c
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                                                                                                                                                             US-09-780-533A-1806
                                                                                                                                                                            SOFTWARE: PatentIn version 3.0
SEQ ID NO 1806
LENGTH: 17
TYPE: RNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1806, Application US/09780533A Publication No. US20030060611A1
                                                                            Best Local Similarity Matches 13; Conserv
                                                                                                                     Query Match
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                                                                                                                                                                                                                                                                                    CURRENT FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: US 60/181,797
PRIOR FILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 6679
                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene FILE REFERENCE; MEHB00,878-A (400/011)
CURRENT APPLICATION NUMBER: US/09/780,533A
CURRENT FILING DATE: 2001-02-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
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INFORMATION FOR SEQ ID NO: 748:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
                                    1573 TCCAGCTCCTCCA 1585
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
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FILING DATE: July 12, 1996
APPLICATION NUMBER: 60/001,135
FILING DATE: July 13, 1995
APPLICATION NUMBER: 08/300,726
FILING DATE: September 2, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                        McSwiggen, Jim
Chowrira, Bharat
Haeberli, Pete
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                                                                              Conservative
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                                                                                               0.9%; Score 13; DB 1; L
100.0%; Pred. No. 1.6e+02;
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                                                                              Mismatches
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US-09-848-754A-2903 ; Sequence 2903, Application US/09848754A ; Publication No. US20030073207A1

RESULT 146

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                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 148
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; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-848-754A-3486
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SOFTWARE: Patentin version 3.0
SEQ ID NO 2903
LENGTHY 1-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Ribozyme Pharmaceuticals, Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
TITLE OF INVENTION: Levels of Epidermal Growth Factor Receptors
FILE REFERENCE: MBHBO0-958-I (400/018)
CURRENT APPLICATION NUMBER: US/9/848,754A
CURRENT FILING DATE: 2001-05-03
                                                                                                                                                                                                                                                   Sequence 3487, Application US/09848754A

Publication No. US20030073207A1

GENERAL INFORMATION:

APPLICANT: Ribozyme Pharmaceuticals, Inc.

TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions

TITLE OF INVENTION: Levels of Epidermal Growth Factor Receptors

FILE REFERENCE: MBHB00-958-I (400/018)
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Best Local Similarity 76.9%;
Matches 10; Conservative
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Best Local
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Query Match
Best Local Similarity
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                                                               -09-848-754A-3487
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TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
TITLE OF INVENTION: Levels of Epidermal Growth Factor Receptors
FILE REFERENCE: MedHa00-958-I (400/018)
CURRENT APPLICATION NUMBER: US/09/848,754A
CURRENT FILING DATE: 2001-05-03
                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/09/848,754A
CURRENT FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 9645
SOFTWARE: PatentIn version 3.0
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TYPE: RNA
ORGANISM: Homo sapiens
                                                                              LENGTH: 17
TYPE: RNA
ORGANISM: Homo sapiens
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Similarity 76.9%;
10; Conservative
  0.9%;
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Pred. No. 1.6e+02;
3; Mismatches 0;
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Pred. No. 1.6e+02
    Score 13;
Pred. No.
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    1.6e+02;
                     DB 1;
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                     Length 17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 150
US-09-740-332-831/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: Description of Artificial Sequence: US-09-776-474-1033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent for ITITLE OF INVENTION: Enzyme
FILE REFERENCE: MBHB00-955-A (400/008)
CURRENT APPLICATION NUMBER: US/09/776,474
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,983
PRIOR FILING DATE: 2000-03-02
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US-09-776-474-1033
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Best Local Similarity
Matches 12; Conserv
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                                                                Best Local
                                                                              Query Match
                                                                                                                                                                                                                                                             APPLICANT: Ribozyme Pharmaceuticals Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions
TITLE OF INVENTION: Hepatitis C Virus Infection
FILE REFERENCE: RPI 400/003
CURRENT APPLICATION NUMBER: US/09/740,332
CURRENT FILING DATE: 2001-03-26
NUMBER OF SEQ ID NOS: 9704
SOFTWARE: PatentIn version 3.0
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                                                                                                                                                            FEATURE:
NAME/KEY: misc_feature
                                                                                                                                 OTHER INFORMATION: oligonucleotide substrate
                                                                                                                                                                                                ORGANISM: artificial sequence
                                                                                                                                                                                                               LENGTH: 17
TYPE: RNA
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                                                                                                                                                  LOCATION:
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               1545 GCGGAGACAGGTA 1557
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Holman, Patricia
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Fattaey, Ali
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Pred. No. 1.6e
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RESULT 153
US-09-817-879-3724
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US-09-817-879-831/c
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; OTHER INFORMATION: oligonucleotide substrate
US-09-817-879-831
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US-09-740-332-3724
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APPLICANT: Ribozyme Pharmaceuticals Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases
TITLE OF INVENTION: Hepatitis C Virus Infection
FILE REFERENCE: MEHBOO-801-F
CURRENT APPLICATION NUMBER: US/09/817,879
CURRENT FILING DATE: 2001-03-26
NUMBER OF SEQ ID NOS: 9703
SOFTWARE: Patentin version 3.0
SEQ ID NO 831
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Publication No. US20030125270A1
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
TITLE OF INVENTION: Hepatitis C Virus Infection
FILE REFERENCE RPI 400/003
CURRENT APPLICATION NUMBER: US/09/740,332
CURRENT FILING DATE: 2001-03-26
NUMBER OF SEQ ID NOS: 9704
SOFTWARE: Patentin version 3.0
SEQ ID NO 3724
                                  Sequence 3724, Application US/09817879
Publication No. US20030171311A1
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Best Local Similarity
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TYPE: RNA
ORGANISM: artificial sequence
                                                                                                                                                                                                                                                                                                                                              FEATURE:
NAME/KEY: misc_feature
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ORGANISM: artificial sequence
FEATURE:
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Pharmaceuticals Inc
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92.3%;
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Pred. No.
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US-09-829-855-177
Sequence 177, Application US/09829855
Patent No. US20020065609A1
GENERAL INFORMATION:
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; ORGANISM: Homo sapiens
US-10-230-006;1403
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US-10-230-006-1403/c
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Best Local Similarity
Matches 12; Conserv
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 1403
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CURRENT FILING DATE: 2001-03-26
NUMBER OF SEQ ID NOS: 9703
SOFTWARE: PatentIn version 3.0
SEQ ID NO 3724
SEQ ID NO 3724
TYPE: RNA
ORGANISM: artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
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                 CURRENT APPLICATION NUMBER: US/09/829,855
CURRENT FILLING DATE: 2001-04-10
PRIOR APPLICATION NUMBER: US 60/196063
PRIOR FILING DATE: 2000-04-10
PRIOR APPLICATION NUMBER: US 60/196258
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 244
                                                                                                                                                               APPLICANT: Matthew, Ashby N.
TITLE OF INVENTION: Methods for the Survey
FILE REFERENCE: ASHBY-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/10/230,006
CURRENT FILING DATE: 2002-11-18
PRIOR APPLICATION NUMBER: US 60/315,315
PRIOR FILING DATE: 2001-08-28
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NAME/KEY: misc_feature
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Local Similarity 100.0%; Pred. No.
10: 13; Conservative 0; Mismatc
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PatentIn version 3.1
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Pred. No. 1.6e+02;
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// OTHER INFORMATION: Uncultured Acidobacterium Sub.Div-1
US-09-829-855-177

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US-09-866-108-653
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PRIOR FILING DATE: 2000-05-26
PRIOR PELING DATE: 2000-05-26
PRIOR FILING DATE: 2000-0-04
PRIOR FILING DATE: 2000-09-20
PRIOR PELING DATE: 2000-09-20
PRIOR PELING DATE: 2000-01-30
PRIOR PELING DATE: 2001-01-30
PRIOR PELING DATE: 2001-01-30
PRIOR PELING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR PILING DATE: 2001-01-30
PRIOR PELING DATE: 2001-01-30
PRIOR PELING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR PRIOR PLING DATE: 2001-01-30
PRIOR PRIO
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LENGTH: 16
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CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
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APPLICANT: JI, Y
APPLICANT: PENN
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PRIOR APPLICATION NUMBER: US 60/266,860
PRIOR FILING DATE: 2001-02-05
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APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
                                                                                                                                                                                                                                                                                                                                         PRIOR FILING DATE: 2001-02-05
NUMBER OF SEQ ID NOS: 15752
                                                                                                                                                                                          LENGTH: 17
TYPE: DNA
                                                                                                                                                                                                                                                                                                     SOFTWARE: Aeomica Sequence Listing Engine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: PCT/US01/00661
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00670
FILING DATE: 2001-01-30
APPLICATION NUMBER: US 60/234,687
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o. US20020048800A1
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NN, Sharron G.
NZEL, David K.
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Pred. No. 1.
Score 12.8; DB 1;
Pred. No. 1.7e+02;
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                                                                                                                                                                                                              ; ORGANISM: Homo sapiens
US-09-866-108-654
                                                                                                                                                                                                                                                                                          SOFTWARE: Aeor
; SEQ ID NO 654
FONCTH: 17
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PRIOR PILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/207, 456
PRIOR APPLICATION NUMBER: US 60/236, 359
PRIOR APPLICATION NUMBER: US 60/236, 359
PRIOR APPLICATION NUMBER: PCT/USO1/00666
PRIOR PILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/USO1/00667
PRIOR APPLICATION NUMBER: PCT/USO1/00667
PRIOR APPLICATION NUMBER: PCT/USO1/00669
PRIOR APPLICATION NUMBER: PCT/USO1/00669
PRIOR PILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/USO1/00669
PRIOR PILING DATE: 2001-01-30
PRIOR PRIOR APPLICATION NUMBER: PCT/USO1/00663
PRIOR APPLICATION NUMBER: PCT/USO1/00663
PRIOR APPLICATION NUMBER: PCT/USO1/00661
PRIOR APPLICATION NUMBER: PCT/USO1/00662
PRIOR APPLICATION NUMBER: PCT/USO1/00661
PRIOR APPLICATION NUMBER: US 60/266, 860
PRIOR FILING DATE: 2001-01-30
PRIOR PILING DATE: 2000-09-21
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; Sequence 654, Application US/09866108
; Patent No. US20020048800A1
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Best Local Similarity
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
FILE REFERENCE: AEOMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT APPLICATION NUMBER: 2001-05-25
CURRENT FILING DATE: 2001-05-25
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                                                                                                                                                                                                                                                                    TYPE: DNA
                                                  1566 GGCTGAGTCCAGCTCC 1581
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16 GGCTGAGTCCGGGTCC 1
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Pred. No. 1.7e+02;
                                                                                                          Mismatches
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RESULT 158 US-09-866-108-1107 ; Sequence 1107, Application US/09866108

FILE REFERENCE: AEOMICA-7

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US-09-866-108-1108
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; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-1107
                                                                                                                                                                         Sequence 1108, Application US/09866108 Patent No. US20020048800A1
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APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
FILE REFERENCE: AEOMICA-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 15752
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CURRENT FILING DATE: 2001-05-25
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PRIOR FILING DATE: 2000-05-26
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FILING DATE: 2001-01-30
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APPLICATION NUMBER: PCT/US01/00665
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APPLICATION NUMBER: US 60/234,687
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THE STANNON, MARK
INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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                                                                            JI, Yonggang
PENN, Sharron G.
HANZEL, David K.
                                        RANK, David R. CHEN, Wensheng
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                                                                                                                                    , Yizhong
                                                                                                                                                                                                                                                                                                                                                                 Conservative
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EL, David K.
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Pred. No. 1.7e+02;
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; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-1108
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                                                                                               APPLICANT: SHANNON, MARK
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
FILE REFERENCE: AEOMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR PILING DATE: 2000-05-26
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APPLICANT:
                                                            PRIOR APPLICATION NUMBER: GB 24263.6 PRIOR FILING DATE: 2000-10-04
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APPLICANT: JI, Yonggang
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NUMBER OF SEQ ID NOS: 15752
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
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CURRENT FILING DATE: 2001-05-25
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PRIOR FILING DATE: 2000-09-27
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PRIOR FILING DATE: 2000-05-26
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APPLICATION NUMBER: PCT/US01/00666
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HANZEL, David K.
RANK, David R.
CHEN, Wensheng
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US-09-866-108-1113
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US-09-866-108-1112
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Best Local Similarity
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PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
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CURRENT FILING DATE: 2001-05-25
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TYPE: DNA
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
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FILING DATE: 2001-01-30
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APPLICATION NUMBER: PCT/US01/00664
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APPLICATION NUMBER: PCT/US01/00668
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NUMBER: PCT/US01/00668
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                                               PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR PELING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR PRILING DATE: 2001-01-30
PRIOR PPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00661
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APPLICANT: JI,
APPLICANT: PEN
APPLICANT: HAN
APPLICANT: RAN
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CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
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PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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APPLICATION NUMBER: US 60/234,687
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Pred. No. 1.7e+02;
0; Mismatches 2
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                                                                        SOFTWARE: Aeomica Sequence Listing Engine SEQ ID NO 1176
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LENGTH: 17
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TYPE: DNA
ORGANISM: Homo sapiens
-09-866-108-1175
LENGTH: 17
TYPE: DNA
ORGANISM: Homo sapiens
-09-866-108-1176
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CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
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APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, MARK
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
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PRIOR APPLICATION NUMBER: US 60/266,860
PRIOR FILING DATE: 2001-02-05
NUMBER OF SEQ ID NOS: 15752
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Local Similarity 87.5%;
                                                                                                                                 APPLICATION NUMBER: US 60/266,860 FILING DATE: 2001-02-05
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                                                                                                                                                                                                                              APPLICATION NUMBER: PCT/US01/00670
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Pred. No. 1.
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US-09-866-108-1571
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Best Local Similarity
Matches 14; Conserv
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                                                                                                                                                           LENGTH: 17
TYPE: DNA
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PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
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CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
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                           1503 CAGCCAGCCGGCTGTG 1518
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CAGCCAGCCTGCTCTG 17
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HANZEL, David K
RANK, David R.
CHEN, Wensheng
                                                              Conservative
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Pred. No. 1.7e+02;
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LENGTH: 17
TYPE: DNA
TYPE: DNA
ORCANISM: Homo sapiens
JS-09-866-108-1572
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Best Local S
Matches 14
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                                                                                                 GENERAL INFORMATION:
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PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
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                                                          APPLICANT: GU, Yizhong APPLICANT: JI, Yonggar
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CURRENT FILING DATE: 2001-05-25
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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APPLICATION NUMBER: PCT/US01/00667
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APPLICATION NUMBER: US 60/266,860
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FILING DATE: 2001-01-30
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JI, Yonggang
PENN, Sharron G.
HANZEL, David K.
RANK, David R.
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CHEN, Wensheng
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NN, Sharron G.
NZEL, David K.
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Pred. No. 1.7e+02;
0; Mismatches 2;
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Best Local Similarity
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SEQ ID NO 6176
  FILE REFERENCE: AEOMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 624263.6
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APPLICANT:
APPLICANT:
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APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
FILE REFERENCE: AEOMICA-7
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PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
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PRIOR FILING DATE: 2001-01-30
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CURRENT FILING DATE: 2001-05-25
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PRIOR APPLICATION NUMBER: US 60/266,860
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
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PRIOR FILING DATE: 2000-05-26
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FILING DATE: 2000-10-04
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PENN, Sharron
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Pred. No. 1
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NUMBER: US 60/236,359

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; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-6177
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Best Local Similarity 87.5%;
Matches 14; Conservative
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PRIOR
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APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
FILE REFERENCE: AEOMICA-7
                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
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CURRENT FILING DATE: 2001-05-25
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APPLICANT: JI, Yonggar
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                                                                                                                       APPLICATION NUMBER: GB 24263.6
FILING DATE: 2000-10-04
APPLICATION NUMBER: US 60/236,359
FILING DATE: 2000-09-27
APPLICATION NUMBER: PCT/US01/00666
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00667
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00664
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00669
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APPLICATION NUMBER: PCT/US01/00661
FILING DATE: 2001-01-30
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APPLICATION NUMBER: US 60/266,860
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FILING DATE: 2001-01-30
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HANZEL, David K.
RANK, David R.
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Pred. No. 1.7e+02;
0; Mismatches 2;
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PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR APPLICATION NUMBER: DCT/USO1/00666
PRIOR TILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/USO1/00667
PRIOR PILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/USO1/00669
PRIOR APPLICATION NUMBER: PCT/USO1/00665
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Best Local S
Matches 14
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SEQ ID NO 6311
LENGTH: 17
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PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR PILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
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APPLICANT:
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CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
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PRIOR APPLICATION NUMBER: US 60/266,860
PRIOR FILING DATE: 2001-02-05
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PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
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PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
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FITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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ORGANISM: Homo sapiens
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les 14; Conserv
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APPLICATION NUMBER: US 60/234,687
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HANZEL, David
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87.5%; Pred. No. 1.
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Best Local
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 60/266,860
PRIOR FILING DATE: 2001-02-05
SOFTWARE:
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APPLICANT:
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                                                   PRIOR APPLICATION NUMBER: US 60/266,860 PRIOR FILING DATE: 2001-02-05
                                                                                           PRIOR APPLICATION NUMBER: US PRIOR FILING DATE: 2000-09-21
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PRIOR APPLICATION NUMBER: US 60/207,456
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CURRENT FILING DATE: 2001-05-25
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APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00669
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APPLICATION NUMBER: PCT/US01/00667
FILING DATE: 2001-01-30
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FILING DATE: 2001-01-30
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APPLICATION NUMBER: PCT/US01/00665
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00668
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                                                                                                                                                                                                                                                                APPLICATION NUMBER: PCT/US01/00663
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o. US20020048800A1
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               Aeomica Sequence
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               Listing Engine
                                                                                                             60/234,687
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Pred. No. 1.
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; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo s
US-09-866-108-6532
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; ORGANISM: Homo sapiens
US-09-866-108-6531
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US-09-866-108-6532
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PRIOR FILING DATE: 2001-01-30
PRIOR PELLING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR PELLORION NUMBER: PCT/US01/00665
PRIOR PELLORION NUMBER: PCT/US01/00668
PRIOR PELLORION NUMBER: PCT/US01/00668
PRIOR PELLORION NUMBER: PCT/US01/00663
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR APPLICATION NUMBER: PCT/US01/00661
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PRIOR FILING DATE: 2000-10-04
PRIOR PELICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
                                                              Query Match
Best Local S
Matches 14
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Best Local S
Matches 14
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TITLS OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND
FILE REFERENCE: AEOMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 15752
SOFTWARE: Aeomica Sequence
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PRIOR APPLICATION NUMBER: US 60/266,860
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                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: PCT/US01/00670
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Local Similarity 87.5%;
les 14; Conservativo
1359 GCCTGGAAGAGAAAAG 1374
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                                                                                   Similarity
                                                                                                                                                                                                                                                    Aeomica Sequence Listing Engine
                                                                                                                                                                                                                                                                                                                                                         CATION NUMBER: US 60/234,687
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PENN, Sharron G.
HANZEL, David K.
                                                                  Conservative
                                                                                                                                                                                                                                                                                             2001-02-05
                                                                                 0.9%;
                                                                Score 12.8; D
Pred. No. 1.7e
0; Mismatches
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Pred. No. 1.7e+02;
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                                                                1.7e+02;
ches 2;
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GCCTGGTAGAGACAAG 16

US-09-866-108-7345

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RESULT 173
US-09-866-108-7346
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                                  Sequence 7346, Application US/09866108
Patent No. US20020048800A1
GENERAL INFORMATION:
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Best Local Similarity 87.5
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SOFTWARE: Aeomica Sequence Listing Engine
SEQ ID NO 7345
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                                                                                                                                                                                                                                                                                               TYPE: DNA ORGANISM: Homo sapiens -09-866-108-7345
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PRIOR APPLICATION NUMBER: US 60/266,860
PRIOR FILING DATE: 2001-02-05
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PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263.6
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CURRENT FILING DATE: 2001-05-25
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     APPLICANT:
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[TLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED]
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FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00664
FILING DATE: 2001-01-30
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FILING DATE: 2001-01-30
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GU, Yizhong
JI, Yonggang
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Pred. No. 1
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RESULT 174
US-09-866-108-7672/c
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PRIOR FILING DATE: 2000-05-26
PRIOR PPLICATION NUMBER: GB 24263.6
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR PILING DATE: 2000-09-27
PRIOR PILING DATE: 2001-01-30
PRIOR PILING DATE: 2001-01-30
PRIOR PILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
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; SEQ ID NO 7346
; LENGTH: 17
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Best Local Similarity
Matches 14; Conserv
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                                                                                                                                                                                                                                                                                                                                         Sequence 7672, Application US/09866108
Patent No. US20020048800A1
                        APPLICANT: RANK, David R.
APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
FILE REFERENCE: AEOMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
                                                                                                                                                                            APPLICANT: GU, Yizhong
APPLICANT: JI, Yonggang
APPLICANT: PENN, Sharron G.
APPLICANT: HANZEL, David K.
APPLICANT: RANK, David R.
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PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
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CURRENT FILING DATE: 2001-05-25
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PRIOR APPLICATION NUMBER: US 60/207,456
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FILING DATE: 2000-09-21
APPLICATION NUMBER: US 60/266,860
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INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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ilarity 87.5%;
Conservative
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Pred. No. 1.
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Best Local
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PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
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CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
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APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, MAIK
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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APPLICATION NUMBER: US 60/266,860
FILING DATE: 2001-02-05
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APPLICATION NUMBER: GB 24263.6
FILING DATE: 2000-10-04
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APPLICATION NUMBER: PCT/US01/00664
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o. US20020048800A1
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EL, David K.
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; ORGANISM: Homo sapiens
US-09-866-108-7674
                                                       PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR PPLICATION NUMBER: PCT/US01/00664
PRIOR PPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR PILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR PILING DATE: 2001-01-30
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Best Local
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TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
FILE REFERENCE: ADOMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
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APPLICANT: JI, Yongga
APPLICANT: PENN, Shar
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PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
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SOFTWARE: Aeomica Sequence
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Local Similarity 87.5%;
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APPLICATION NUMBER: PCT/US01/00662
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APPLICATION NUMBER: PCT/US01/00662
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Pred. No. 1.7e+02;
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; ORGANISM: Homo sapiens
US-09-866-108-9074
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Best Local Similarity
Matches 14; Conserv
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PRIOR FILING DATE: 2000-05-26
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CURRENT FILING DATE: 2001-05-25
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ITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED
ILE REFERENCE: AEOMICA-7
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           FILING DATE: 2000-09-21
APPLICATION NUMBER: US 60/266,860
FILING DATE: 2001-02-05
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APPLICATION NUMBER: PCT/US01/00664
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APPLICATION NUMBER: PCT/US01/00666
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FILING DATE: 2000-09-21
APPLICATION NUMBER: US 60/266,860
FILING DATE: 2001-02-05
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APPLICATION NUMBER: PCT/US01/00670
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                                                                        APPLICATION NUMBER: US 60/234,687
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NOS: 15752
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Pred. No. 1.7e+02;
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; ORGANISM: Homo
US-09-866-108-9076
                                                                                        US-09-866-108-10700
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PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/USO1/00666
PRIOR APPLICATION NUMBER: PCT/USO1/00667
PRIOR APPLICATION NUMBER: PCT/USO1/00667
PRIOR FILING DATE: 2001-01-30
PRIOR FILING DATE: 2001-01-30
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SOFTWARE: Aeomica Sequence
SEQ ID NO 10700
LENGTH: 17
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LENGTH: 17
Query Match 0.9%;
Best Local Similarity 87.5%;
Matches 14; Conservative
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Best Local Similarity
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APPLICANT: RANK, David R.
APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
FILE REFERENCE: AEOMICA-7
CURRENT APPLICATION NUMBER: US/09/866,108
CURRENT FILING DATE: 2001-05-25
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PRIOR APPLICATION N
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PRIOR APPLICATION NUMBER: PCT/US01/00661
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
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PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
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PRIOR FILING DATE: 2001-01-30
                                                                                                       ORGANISM: Homo sapiens
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PENN, Sharron
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  Score 12.8; DB 1; Pred. No. 1.7e+02; O; Mismatches
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CURRENT FILING DATE: 2001-05-25
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APPLICANT: CHEN, Wensheng
APPLICANT: SHANNON, Mark
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
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TYPE: DNA
ORGANISM: Homo sapiens
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APPLICATION NUMBER: GB 24263.6
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FILING DATE: 2001-01-30
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EL, David K.
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Pred. No. 1.7e+02;
0; Mismatches 2;
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US-09-864-785-1617
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                                                                                                                                                                             US-09-825-805-782
                                                                                                                                                                                                  RESULT 182
                                                                                                                 Sequence 782, Application US/09825805
Publication No. US20030004122A1
GENERAL INFORMATION:
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LENGTH: 17
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                                                                              APPLICANT: Ribozyme Pharmaceuticals, Inc APPLICANT: Beigelman, Leo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Draper, Ken
APPLICANT: McSwiggen, Jim
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate.
TITLE OF INVENTION: Levels of NF-Kappa B
FILE REFERENCE: 400/022 (MHHB00-812-D)
CURRENT APPLICATION NUMBER: US/09/864,785
CURRENT FILING DATE: 2001-05-23
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CURRENT FILING DATE: 2001-05-23
NUMBER OF SEQ ID NOS: 3929
SOFTWARE: PatentIn version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Stinchcomb, Dan
APPLICANT: Draper, Ken
APPLICANT: Draper, Ken
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate-
TITLE OF INVENTION: Levels of NF-Kappa B
                                                              APPLICANT:
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APPLICANT: Stinchcomb, Dan
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                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: RNA
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                                                                                                                                                                                                                                                                                               2005 GCCCGGAGGCCACCCG 2020
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                    Karpeisky, Alex
Adamic, Jasenka Matulic
                                                          Beaudry, Amber
                                                                            Beigelman,
Sweedler, Dave
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87.5%;
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Pred. No. 1.70
0; Mismatches
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; ORGANISM: Homo sapiens
US-09-818-875-1759
                                                                                                  Query Match
Best Local S
                                                                                                                                                                                                                                                       SEQ ID NO 1759
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Best Local Similarity 62.5%;
Matches 10; Conservative
                                                                                   Matches
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TYPE: RNA
ORGANISM: Homo sapiens
-09-825-805-782
                                                                                                                                                                                                                                                                                                             PRIOR FILING DATE: 2000-03-27
PRIOR APPLICATION NUMBER: US 60/208,538
PRIOR FILING DATE: 2000-06-01
PRIOR APPLICATION NUMBER: US 60/244,989
PRIOR FILING DATE: 2000-10-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single TITLE OF INVENTION: Stranded Oligonucleotides FILE REFERENCE: Napro-4 CURRENT APPLICATION NUMBER: US/09/818,875 CURRENT FILING DATE: 2001-03-27
                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 4385
SOFTWARE: Friedman macro Napro4
                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 60/192,176
PRIOR FILING DATE: 2000-03-27
PRIOR APPLICATION NUMBER: US 60/192,179
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PRIOR APPLICATION NUMBER: 09/476,387
PRIOR FILING DATE: 1999-12-30
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CURRENT APPLICATION NUMBER: US/09/825,805
CURRENT FILING DATE: 2001-09-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Kmiec, Eric B.
APPLICANT: Gamper, Howard E
APPLICANT: Rice, Michael C.
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EQ ID NO 782
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PRIOR APPLICATION NUMBER: 60/064,866
PRIOR FILING DATE: 1997-11-05
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PRIOR FILING DATE: 1999-12-29
PRIOR APPLICATION NUMBER: 09/301,511
PRIOR FILING DATE: 1999-04-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 09/578,223
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LE REFERENCE: MBHB00-831-F (400/009)
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FILING DATE: 1998-11-04
                                         1880 AGATGATGAAGATGAT 1895
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                                                                                                    Similarity
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AGATGATTCAGATGAT 16
                                                                                   Conservative
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                                                                              Score 12.8; D
Pred. No. 1.7e
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Pred. No. 1.7e+02;
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                                                                                                                                ; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-818-875-3314
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US-09-818-875-1760/c
                                                                                                                                                                                          SOFTWARE: Friedman macro Napro4
SEQ ID NO 3314
LENGTH: 17
                                         Query Match 0.9%;
Best Local Similarity 87.5%;
Matches 14; Conservative
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CURRENT APPLICATION NUMBER: US/09/818,875
CURRENT FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: US 60/192,176
PRIOR FILING DATE: 2000-03-27
PRIOR APPLICATION NUMBER: US 60/192,179
PRIOR FILING DATE: 2000-03-27
PRIOR FILING DATE: 2000-03-27
                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: US 60/208,538 PRIOR FILING DATE: 2000-06-01 PRIOR APPLICATION NUMBER: US 60/244,989 PRIOR FILING DATE: 2000-10-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Rice, Michael C.
TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
TITLE OF INVENTION: Stranded Oligonucleotides
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PRIOR FILING DATE: 2000-03-27
PRIOR APPLICATION NUMBER: US 60/208,538
PRIOR FILING DATE: 2000-06-01
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SOFTWARE: Friedman macro Napro4
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PRIOR APPLICATION NUMBER: US 60/192,176
PRIOR FILING DATE: 2000-03-27
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CURRENT APPLICATION NUMBER: US/09/818,875
CURRENT FILING DATE: 2001-03-27
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1686 CCCAAAATGGGAGTTT 1701
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                                                              Score 12.8; DB 1;
Pred. No. 1.7e+02;
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                                           Mismatches
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US-09-780-533A-843/c
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; ORGANISM: Homo sapiens
US-09-818-875-3315
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US-09-818-875-3315/c
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PRIOR FILING DATE: 2000-03-27
PRIOR APPLICATION NUMBER: US 60/192,179
PRIOR FILING DATE: 2000-03-27
PRIOR FILING DATE: 2000-03-27
PRIOR APPLICATION NUMBER: US 60/208,538
PRIOR FILING DATE: 2000-06-01
PRIOR APPLICATION NUMBER: US 60/244,989
PRIOR APPLICATION NUMBER: US 60/244,989
PRIOR FILING DATE: 2000-10-30
NUMBER OF SEQ ID NOS: 4385
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APPLICANT: Chowrira, Bharat
APPLICANT: Chowrira, Bharat
APPLICANT: Haeberli, Pete
TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
FILE REFERENCE: MBHB00,878-A (400/011)
CURRENT APPLICATION NUMBER: US/09/780,533A
CURRENT APPLICATION NUMBER: US/09/780,533A
CURRENT FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: US 60/181,797
PRIOR TILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 6679
SOFTWARE: PatentIn version 3.0
SEQ ID NO 843
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LENGTH: 17
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Best Local Similarity
                                                                                     Matches
                                                                                                       Query Match
Best Local Similarity
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CURRENT FILING DATE: 2001-03-27
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APPLICANT: Rice, Michael C.
TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
TITLE OF INVENTION: Stranded Oligonucleotides
FILE REFERENCE: Napro-4
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APPLICANT: Gamper, Howar
APPLICANT: Rice, Michael
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                                          1651 CTGGCAGGGGTCTCCG 1666
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CCGGCAGGGGTCCCCG 2
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Pred. No. 1.7e+02;
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Pred. No. 1:7e+02;
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Sequence 845, Application US/09780533A

Publication No. US20030060611A1

GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
APPLICANT: Chowrira, Bharat
APPLICANT: Haeberl1, Pete
FITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
FILE REFERENCE: MBHB00,878-A (400/011)

CURRENT APPLICATION NUMBER: US/09/780,533A

CURRENT FILING DATE: 2001-02-09

PRIOR APPLICATION NUMBER: US 60/181,797

PRIOR FILING DATE: 2000-02-11

NUMBER OF SEQ ID NOS: 6679

SOFTWARE: PatentIn version 3.0
片
                                                                                                                                                                 ; TYPE: RNA; Homo sapiens; ORGANISM: Homo sapiens US-09-780-533A-2092
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US-09-780-533A-2092/c
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                                                               Query Match
Best Local Similarity
Matches 14; Conserv
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Best Local Similarity
Matches 14; Conserv
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APPLICANT: Chowrira, Bharat
APPLICANT: Chowrira, Bharat
APPLICANT: Haeberli, Pete
TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
FILE REFERENCE: MBHB00, 878-A (400/011)
CURRENT PELICATION NUMBER: US/09/780,533A
CURRENT FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: US 60/181,797
PRIOR PELICATION NUMBER: US 60/181,797
INDIES OF SEQ ID NOS: 6679
SOFTWARE: Patentin version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
APPLICANT: Chowrifa, Bharat
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16 GTCCAGGTCTTCCATG 1
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Pred. No. 1.7e+02;
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Pred. No. 1.7e+02;
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RESULT 190 US-09-780-533A-2103/c

Sequence 2103, Application US/09780533A Publication No. US20030060611A1 GENERAL INFORMATION:

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US-09-780-533A-2341/c
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SOFTWARE: Patentin version 3.0
SEQ ID NO 2341
LENGTH!
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Best Local Similarity
Matches 14; Conserv
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: McSwiggen, Jim
APPLICANT: Chowrira, Bharat
APPLICANT: Haeberli, Pete
TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
FILE REFERENCE: MBHB00,878-A (400/011)
CURRENT APPLICATION NUMBER: US/09/780,533A
CURRENT FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: US 60/181,797
PRIOR FILING DATE: 2000-02-11
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APPLICANT: Chowrira, Bharat
APPLICANT: Chowrira, Bharat
APPLICANT: Haeberli, Pete
TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
FILE REFERENCE: MBHB00,878-A (400/011)
CURRENT APPLICATION NUMBER: US/09/780,533A
CURRENT FILING DATE: 2001-02-09
                                                                                                 APPLICANT: Ribozyme Pharmaceuticals, APPLICANT: Draper, Kenneth
APPLICANT: McSwiggen, Jim
APPLICANT: Morrissey, Dave
TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication
FILE REFERENCE: MBHB00-845-H (400/029)
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APPLICANT: Blatt, Larry
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PRIOR FILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 6679
                                                                                 APPLICANT:
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TYPE: RNA
ORGANISM: Homo sapiens
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TYPE: RNA
ORGANISM: Homo sapiens
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Blatt, Larry
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Pred. No. 1.
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Pred. No. 1.7e+02;
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Sequence 326, Application wo. US20030073207A1
Sequence 326, Application wo. US20030073207A1
Publication No. US20030073207A1
GENERAL INFORMATION:
GENERAL INFORMATION:
INTITUTE OF INVENTION:
Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
INTITUTE OF INVENTION: Levels of Epidermal Growth Factor Receptors
TITLE OF INVENTION: Levels of Epidermal Growth Factor Receptors
TITLE OF INVENTION: US/09/848,754A
                                                                                                                                                                                                                              US-09-848-754A-326
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Matches
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CURRENT FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 9645
SOFTWARE: PatentIn version 3.0
SEQ ID NO 184
LENGTH: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 184, Application US/09848754A
Publication No. US20030073207A1
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases
TITLE OF INVENTION: Levels of Epidermal Growth Factor Receptors
FILE REFERENCE: MBH800-958-I (400/018)
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Matches 11; Conserv
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SEQ ID NO 2463
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Best Local
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PRIOR APPLICATION NUMBER: US 08/433,993
PRIOR FILING DATE: 1995-05-04
PRIOR APPLICATION NUMBER: US 08/434,504
PRIOR FILING DATE: 1995-05-04
PRIOR APPLICATION NUMBER: US 09/436,430
PRIOR APPLICATION NUMBER: US 09/436,430
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CURRENT FILING DATE: 2001-12-31
PRIOR APPLICATION NUMBER: US 07/882,712
PRIOR FILING DATE: 1992-05-14
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PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 08/193,627
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PRIOR FILING DATE: 2000-03-20
PRIOR APPLICATION NUMBER: US 09/636,385
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Pred. No. 1.
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Pred. No. 1
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; ORGANISM: Homo sapiens
US-09-848-754A-326
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US-09-848-754A-1167
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Publication No. US20030073207A1

GENERAL INFORMATION:

APPLICANT: Ribozyme Pharmaceuticals, Inc.

TITLE OF INVENTION: Levels of Epidermal Growth Factor Receptors

FILE REFERENCE: MBH800-958-I (400/018)

CURRENT APPLICATION NUMBER: US/09/848,754A

CURRENT FILING DATE: 2001-05-03

NUMBER OF SEQ ID NOS: 9645

SOFTWARE: Patentin version 3.0

SEQ ID NO 1481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:

APPLICANT: Ribozyme Pharmaceuticals, Inc.

TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases

TITLE OF INVENTION: Levels of Epidermal Growth Factor Receptors

FILE REFERENCE: MBHB00-958-I (400/018)

CURRENT APPLICATION NUMBER: US/09/848,754A

CURRENT FILING DATE: 2001-05-03

NUMBER OF SEQ ID NOS: 9645

SOFTWARE: PatentIn version 3.0

SEQ ID NO 1167
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 326
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Publication No. US20030073207A1
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-09-848-754A-1481
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NOS: 9645
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US-09-848-754A-2894
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US-09-848-754A-3108/c
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APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Ribozyme Pharmaceuticals, Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treat
TITLE OF INVENTION: Levels of Epidermal Growth
FILE REFERENCE: MBHB00-958-I (400/018)
CURRENT FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 9645
SOFTWARE: Patentin version 3.0
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CURRENT FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 9645
SOFTWARE: PatentIn version 3.0
SEQ ID NO 2894
                 APPLICANT: Ribozyme Pharmaceuticals, Inc.

APPLICANT: Ribozyme Pharmaceuticals, Inc.

TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate.

TITLE OF INVENTION: Levels of Epidermal Growth Factor Receptors

FILE REFERENCE: MEHB00-958-1 (400/018)

CURRENT APPLICATION NUMBER: US/09/848,754A

CURRENT FILING DATE: 2001-05-03

NUMBER OF SEQ ID NOS: 9645

SOFTWARE: PatentIn version 3.0

SEQ ID NO 3109

LENGTH: 17
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LENGTH: 17
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TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions
TITLE OF INVENTION: Levels of Epidermal Growth Factor Receptors
FILE REFERENCE: MBHB00-958-I (400/018)
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TYPE: RNA
ORGANISM: Homo sapiens
TYPE: RNA
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Pred. No. 1.7e+02;
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Pred. No. 1.
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RESULT 201
US-09-776-474-679/c
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US-09-776-474-76
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US-09-776-474-76
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US-09-848-754A-3109
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 76
LENGTH: 17
                                                         SEQ ID NO 679
                                                           APPLICANT: Holman, Patricia
APPLICANT: Fattaey, Ali
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent for the Inhibition of Checkpoint Kinase-1 (CHK
TITLE OF INVENTION: Enzyme
FILE REFERENCE: MBHB00-955-A (400/008)
CURRENT APPLICATION NUMBER: US/09/776,474
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,983
PRIOR FILING DATE: 2000-03-02
PRIOR FILING DATE: 2000-03-02
SOFTWARE: PatentIn version 3.0
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TITLE OF INVENTION: Method and Reagent for the Inhibition of Checkpoint Kinase-1 (CHR
TITLE OF INVENTION: Enzyme
FILE REFERENCE: MBHB00-955-A (400/008)
CURRENT APPLICATION NUMBER: US/09/776,474
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,983
PRIOR FILING DATE: 2000-03-02
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                       LENGTH: 17
TYPE: RNA
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ORGANISM: Artificial Sequence
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10. US20030087847A1
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Pred. No. 1.
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Pred. No. 1.7e+02;
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; SEQ ID NO 386
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo Sapiens
US-09-930-423-386
                                                                                                                                                                                                                                                                                                                                                                       US-09-930-423-386/c ; Sequence 386, Application US/09930423 ; Publication No. US20030092003A1
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US-09-776-474-1087
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                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
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SEQ ID NO 1087
LENGTH: 17
                                    Query Match
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APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
FILE REFERENCE: MBHB00,918-A 400/027
                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/09/930,423
CURRENT FILING DATE: 2001-8-15
NUMBER OF SEQ ID NOS: 4553
SOPTWARE: PatentIn version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Fattaey, Ali
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Mcthod and Reagent for the Inhibition of Checkpoint Kinase-1 (CHK
TITLE OF INVENTION: Enzyme
FILE REFERENCE: MBHB00-955-A (400/008)
CURRENT APPLICATION NUMBER: US/09/776,474
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,983
PRIOR APPLICATION NUMBER: US 60/179,983
PRIOR FILING DATE: 2000-03-02
NUMBER OF SEQ ID NOS: 2992
                                                                                                                                                                                                                                                                                          APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
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APPLICANT: Jarvis, Thale
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.9%; Score 12.8; DB 1; Local Similarity 62.5%; Pred. No. 1.7e+02: 108 10; Conservative
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Local Similarity 87.5%;
les 14; Conservation
                Match 0.9%; Local Similarity 87.5%;
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  0; Mismatches
                Score 12.8; DB 1;
Pred. No. 1.7e+02;
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US-09-780-164-225/c
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US-09-930-423-1169/c
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; TYPE: RNA
; ORGANISM: Homo Sapiens
US-09-930-423-660
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                                                                                                                                                                       RESULT 206
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US-09-930-423-1169
                                                                                   Sequence 225, Application US/09780164 Publication No. US20030092646A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
FILE REFERENCE: MBHB00,918-A 400/027
CURRENT PAPLICATION NUMBER: US/09/930,423
CURRENT FILING DATE: 2001-08-15
NUMBER OF SEQ ID NOS: 4553
SOFTWARE: Patentin version 3.0
SEQ ID NO 1169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/09/930,423
CURRENT FILING DATE: 2001-08-15
NUMBER OF SEQ ID NOS: 4553
SOFTWARE: Patentin version 3.0
SEQ ID NO 660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1169, Application US/09930423 Publication No. US20030092003A1 GENERAL INFORMATION:
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Best Local :
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APPLICANT: Blatt, Larry
APPLICANT: Blatt, Larry
APPLICANT: MCSwiggen, Jim
TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
FILE REFERENCE: MBHB00,518-A 400/027
TIPLE REFERENCE: MBHB00,518-A 400/027
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Publication No.
                           APPLICANT: Ribozyme Pharmaceuticals, APPLICANT: Blatt, Larry APPLICANT: McSwiggen, Jim
                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 17
TYPE: RNA
PPLICANT: McSwiggen, Jim
ITLE OF INVENTION: Method and Reagent for the Inhibition of CD20
                                                                                                                                                                                                                                                                                                                             Match 0.9%;
Local Similarity 87.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Match 0.9%;
Local Similarity 68.8%;
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o. US20030092003A1
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Pred. No. 1.7e+02;
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Pred. No. 1.7e+02;
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; ORGANISM: Homo sapiens
US-09-780-164-225
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US-09-780-164-594/c
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US-09-780-164-570
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PRIOR FILING DATE: 2000-02-28
NUMBER OF SEQ ID NOS: 2603
SOPTWARE: PatentIn version 3.0
SEQ ID NO 570
                                                                                                                                                                                                                                               GENERAL INFORMATION:
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Best Local Similarity 87.5%;
Matches 14; Conservative
                 SOFTWARE: Pa
SEQ ID NO 594
                                                                                                                                                                                                                                                               Sequence 594, Application US/09780164 Publication No. US20030092646A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity
                                                                   APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent for the Inhibition of
FILE REFERENCE: 400/010
CURRENT APPLICATION NUMBER: US/09/780,164
CURRENT FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/185,516
PRIOR FILING DATE: 2000-02-28
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CURRENT FILING DATE: 2001-02-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: McSwiggen, Jim TITLE OF INVENTION: Method and Reagent for the Inhibition of CD20 FILE REFERENCE: 400/010
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APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
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PRIOR FILING DATE: 2000-02-28
NUMBER OF SEQ ID NOS: 2603
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CURRENT APPLICATION NUMBER: US/09/780,164
CURRENT FILING DATE: 2001-02-09
                                                       NUMBER OF SEQ ID NOS: 2603
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ORGANISM: Homo sapiens
LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 17
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                                   PatentIn version 3.0
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Pred. No. 1.7e+02;
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Pred. No. 1.
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ORGANISM: Homo sapiens

TYPE: RNA

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; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-827-395A-360
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; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-827-395A-198
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US-09-827-395A-198/c
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                                                                                                                                    PRIOR APPLICATION NUMBER: 60/181,797
PRIOR FILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 2617
SOFTWARE: PatentIn version 3.0
SEQ ID NO 360
LENGTH: 17
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PRIOR FILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 2617
SOFTWARE: PatentIn version 3.0
SEQ ID NO 198
Query Match 0.9%;
Best Local Similarity 87.5%;
Matches 14; Conservative
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Best Local Similarity 87.5%;
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TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO and NOGO Receptor FILE REFERENCE: MBHB00-878-C (400/017)
CURRENT APPLICATION NUMBER: US/09/827,395A
CURRENT FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: 09/780,533
PRIOR FILING DATE: 2001-02-09
PRIOR FILING DATE: 2001-02-09
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TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO and NOGO Receptor
FILE REFERENCE: MBHB00-878-C (400/017)
CURRENT APPLICATION NUMBER: US/09/827,395A
CURRENT FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: 09/780,533
PRIOR APPLICATION NUMBER: 09/780,533
PRIOR FILING DATE: 2001-02-09
                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Ribozyme Pharmaceuticals, APPLICANT: Lawrence Blatt
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James McSwiggen
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o. US20030113891A1
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Score 12.8; DB 1;
Pred. No. 1.7e+02;
0; Mismatches 2;
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Pred. No. 1.7e+02;
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; TYPE: RNA; Homo sapiens; ORGANISM: Homo sapiens US-09-827-395A-691
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Best Local S
Matches 14
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SEQ ID NO 611
LENGTH: 17
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APPLICANT: Ribozyme Pharmaceuticals, Inc
APPLICANT: Lawrence Blatt
APPLICANT: James McSwiggen
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CURRENT FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: 09/780,533
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/181,797
PRIOR FILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 2617
                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: James McSwiggen
APPLICANT: Bharat Chowrira
TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO and NOGO Receptor G
FILE REFERENCE: MBHB00-878-C (400/017)
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APPLICANT: Lawrence Blatt
APPLICANT: James McSwiggen
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TITLE OP INVENTION: Method and Reagent for the Inhibition of NOGO and NOGO Receptor C FILE REFERENCE: MBHB00-878-C (400/017)
CURRENT APPLICATION NUMBER: US/09/827,395A
CURRENT FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: 09/780,533
PRIOR TILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/181,797
PRIOR APPLICATION NUMBER: 60/181,797
PRIOR APPLICATION NUMBER: 60/181,797
PRIOR FILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 2617
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ORGANISM: Homo sapiens
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Pred. No. 1.7e+02;
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1.7e+02;
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RESULT 215
US-09-740-332-653/c
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US-09-740-332-481/c
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GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions
TITLE OF INVENTION: Hepatitis C Virus Infection
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APPLICANT: Ribozyme Pharmaceuticals Inc.
APPLICANT: Ribozyme Pharmaceuticals Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
TITLE OF INVENTION: Hepatitis C Virus Infection
FILE REFERENCE: RPI 400/003
CURRENT APPLICATION NUMBER: US/09/740,332
CURRENT FILING DATE: 2001-03-26
NUMBER OF SEQ ID NOS: 9704
SOFTWARE: PatentIn version 3.0
SEQ ID NO 481
LENGTH: 17
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APPLICANT: Ribozyme Pharmaceuticals Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
TITLE OF INVENTION: Hepatitis C Virus Infection
FILE REFERENCE: RPI 400/003
CURRENT FILE REPLICATION NUMBER: US/09/740,332
CURRENT FILING DATE: 2001-03-26
NUMBER OF SEQ ID NOS: 9704
SOFTWARE: PatentIn version 3.0
                                                                                Sequence 653, Application US/09740332 Publication No. US20030125270A1
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Publication No. US20030125270A1
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TYPE: RNA
ORGANISM: artificial sequence
FEATURE:
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LOCATION:
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Pred. No. 1.7e+02;
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Pred. No. 1.7e+02;
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RESULT 217
US-09-740-332-3135
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; OTHER INFORMATION: oligonucleotide substrate
US-09-740-332-653
                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Ribozyme P
TITLE OF INVENTION: E
TITLE OF INVENTION:
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US-09-740-332-1421/c
         NUMBER OF SEQ ID NOS: 9704
SOFTWARE: PatentIn version 3.0
SEQ ID NO 3135
LENGTH: 17
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APPLICANT: Ribozyme Pharmaceuticals Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate.
TITLE OF INVENTION: Hepatitis C Virus Infection
FILE REFERENCE: RPI 400/003
CURRENT APPLICATION NUMBER: US/09/740,332
CURRENT APPLICATION NUMBER: 2001-03-26
NUMBER OF SEQ ID NOS: 9704
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Best Local Similarity
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Publication No. US20030125270A1
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Best Local Similarity
                                                                                 CURRENT APPLICATION NUMBER: US/09/740,332
CURRENT FILING DATE: 2001-03-26
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CURRENT APPLICATION NUMBER: US/09/740,332
CURRENT FILING DATE: 2001-03-26
NUMBER OF SEQ ID NOS: 9704
                                                                                                                   FILE REFERENCE: RPI
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                                                                                                                  Hepatitis C Virus Infection 400/003
                                                                                                                                                      Pharmaceuticals Inc.
Enzymatic Nucleic Acid Treatment
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Pred. No. 1.
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Pred. No. 1.7e+02;
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                                                                                                                                                         or Conditions Relate
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ORGANISM: artificial sequence

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RESULT 219
US-09-740-332-4457
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                                                                          ; OTHER INFORMATION: oligonucleotide substrate US-09-740-332-4457
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US-09-740-332-3902
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LENGTH: 17
TYPE: RNA
                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 9704
SOFTWARE: PatentIn version 3.0
SEQ ID NO 4457
                                                                                                                                                                                                                                                                    Sequence 4457, Application US/09740332
Publication No. US20030125270A1
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
TITLE OF INVENTION: Hepatitis C Virus Infection
FILE REFERENCE: RPI 400/003
CURRENT APPLICATION NUMBER: US/09/740,332
CURRENT FILING DATE: 2001-03-26
   Query Match 0.9%;
Best Local Similarity 75.0%;
Matches 12; Conservative
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Best Local Similarity
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APPLICANT: Ribozyme Pharmaceuticals Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
TITLE OF INVENTION: Hepatitis C Virus Infection
FILE REFERENCE: RPI 400/003
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Best Local Similarity 62.5%;
Matches 10; Conservative
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SOFTWARE: PatentIn version 3.0
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CURRENT FILING DATE: 2001-03-26
                                                                                                                        PEATURE: misc_feature
                                                                                                                                                             ORGANISM: artificial sequence
                                                                                                                                                                                     TYPE: RNA
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                                                                                                                                                                                                  ENGTH: 17
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al Similarity 87.5%;
14; Conservative
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Pred. No. 1.
   Score 12.8; DB 1;
Pred. No. 1.7e+02;
2; Mismatches 2;
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Pred. No. 1
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1.7e+02;
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                                   Length 17;
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APPLICANT: McSwiggen, Jim
ITILE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
FILE REFERENCE: 400/007 (MBHB00-918-A)
CURRENT APPLICATION NUMBER: US/09/745,237A
CURRENT FILING DATE: 2002-04-15
NUMBER OF SEQ ID NOS: 4550
SOFTWARE: Patentin version 3.0
SEQ ID NO 660
LENGTH: 17
TYPE: RNA
ORGANISM: Homo sapiens
US-09-745-237A-660
                                                                                               RESULT 222
US-09-745-237A-1169/c
; Sequence 1169, Application US/09745237A
; Publication No. US20030143708A1
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US-09-745-237A-386/c
; Sequence 386, Application US/09745237A
; Publication No. US20030143708A1
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US-09-745-237A-660
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; ORGANISM: Homo sapiens
US-09-745-237A-386
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                                                                                     GENERAL INFORMATION:
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pest Local Similarity 87.5%;
Matches 14; Conservation
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APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
                         APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Ribozyme Pharmaceuticals, Inc APPLICANT: Blatt, Larry APPLICANT: McSwiggen, Jim
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APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
FILE REFERENCE: 400/007 (MBHB00-918-A)
CURRENT APPLICATION NUMBER: US/09/745,237A
CURRENT FILING DATE: 2002-04-15
CURRENT FILING DATE: 2002-04-15
RUMBER OF SEQ ID NOS: 4550
                                                                                                                                                                                                                                                                                                            Local Similarity
es 11; Conserv
                                                                                                                                                                                                                                                                  2025 GGAGTACTCCTATGAC 2040
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o. US20030143708A1
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Pred. No. 1.7e+02;
3; Mismatches 2;
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Pred. No. 1.
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SOFTWARE: Pat
SEQ ID NO 661
LENGTH; 17
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CURRENT APPLICATION NUMBER: US/99/745,237A
CURRENT FILING DATE: 2002-04-15
NUMBER OF SEQ ID NOS: 4550
SOFTWARE: Patentin version 3.0
SEQ ID NO 1169
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Best Local S
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Best Local Similarity
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                                                             PRIOR APPLICATION NUMBER: PCT/US 02/16840 PRIOR FILING DATE: 2002-05-29 PRIOR APPLICATION NUMBER: US 60/318,471 PRIOR FILING DATE: 2001-09-10 NUMBER OF SEQ ID NOS: 4666
                                                                                                                                                               APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: McSwiggen, James
TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or Conditions Related to Level
FILE REFERENCE: 400/057 (MBHB01-1158-A)
CURRENT APPLICATION NUMBER: US/10/238,700
CURRENT FILING DATE: 2002-09-18
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TITLE OF INVENTION: Method and Reagent for the Inhibition of Grb-2-related with Inse:
TITLE OF INVENTION: (GRID) Gene
FILE REFERENCE: MBHB00-901-A (400/013)
CURRENT APPLICATION NUMBER: US/09/792,818
CURRENT FILING DATE: 2001-02-23
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NUMBER OF SEQ ID NOS: 2304
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TYPE: RNA
ORGANISM: Homo sapiens
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                                          PatentIn version 3.0
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McSwiggen, Jim
Hamblin, Paul
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Pred. No. 1.7e
0; Mismatches
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Sequence 3208, Application US/10238700
Publication No. US20030153521A1
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: McSwiggen, James
ITILE OF INVENTION: Nucleic Acid Treatment of
FILE REFERENCE: 400/057 (MBHB01-1158-A)
CURRENT FILING DATE: 000/05/10/238,700
CURRENT FILING DATE: 2002-09-18
PRIOR APPLICATION NUMBER: PCT/US 02/16840
PRIOR FILING DATE: 2002-05-29
PRIOR FILING DATE: 2002-05-29
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US-10-238-700-3208
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TITLE OF INVENTION: Nucleic Acid Treatment of
FILE REFERENCE: 400/057 (MBHB01-1158-A)
CURRENT APPLICATION NUMBER: US/10/238,700
CURRENT FILING DATE: 2002-09-18
PRIOR APPLICATION NUMBER: PCT/US 02/16840
PRIOR FILING DATE: 2002-05-29
PRIOR FILING DATE: 2002-05-29
PRIOR APPLICATION NUMBER: US 60/318,471
PRIOR FILING DATE: 2001-09-10
NUMBER OF SEQ ID NOS: 4666
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US-10-238-700-944
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                                                                                                                                                                                 PRIOR APPLICATION NUMBER: US 60/318,471
PRIOR FILING DATE: 2001-09-10
NUMBER OF SEQ ID NOS: 4666
SOFTWARE: PatentIn version 3.0
SEQ ID NO 3208
LENGTH: 17
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Publication No. US20
GENERAL INFORMATION:
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                                                    Best Local Similarity Matches 11; Conserv
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Best Local Similarity 81.2%;
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APPLICANT: McSwiggen, James
                                                                                                                                           TYPE: RNA
ORGANISM: Homo sapiens
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TYPE: RNA
ORGANISM: Homo sapiens
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1512 GGCTGTGCACAAGCTG 1527
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                                                                     68.8%;
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Pred. No. 1.7e
4; Mismatches
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                                                                     Score 12.8;
Pred. No. 1.
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Pred. No. 1.
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                                                      8; DB 1;
1.7e+02;
ches 2;
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Sequence 121, Application US/10061201 Publication No. US20030166229A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                 SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 31
LENGTH: 17
TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                          Matches
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TITLE OF INVENTION: POLYNUCLEOTIDES AND THEIR USE FOR DETECTING RESISTANCE
TITLE OF INVENTION: TO STREPTOGRAMIN A OR TO STREPTOGRAMIN B AND RELATED
TITLE OF INVENTION: COMPOUNDS
FILE REFERENCE: 03715-0059
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Ribozyme Pharmaceuticals, Inc. APPLICANT: McSwiggen, James TITLE OF INVENTION: Nucleic Acid Treatment FILE REFERENCE: 400/057 (MBHB01-1158-A) CURRENT APPLICATION NUMBER: US/10/238,700 CURRENT FILING DATE: 2002-09-18 PRIOR APPLICATION NUMBER: PCT/US 02/16840
                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/10/253,904
CURRENT FILING DATE: 2002-09-25
NUMBER OF SEQ ID NOS: 51
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PRIOR FILING DATE: 2001-09-10
NUMBER OF SEQ ID NOS: 4666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: EL SOLH, NEVINE APPLICANT: ALLIGNET, JEAN:
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TYPE: RNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: Description of Artificial Sequence: Primer
                                                                                                                                                                                                                                                                                                                         FEATURE:
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No. US20030158135A1
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Pred. No. 1.7e+02;
0; Mismatches 2;
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Pred. No. 1.
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; ORGANISM: Homo sapiens US-10-061-201-121
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SEQ ID NO 121
                                                                               Matches
                                                                                                                     Query Match
                                                                                                  Best Local Similarity
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CURRENT APPLICATION NUMBER: US/10/061,201
CURRENT FILLING DATE: 2002-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
                                                                                                                                                                                                                                                                                                         PRIOR FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/328,205
PRIOR FILING DATE: 2001-10-10
                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 4162
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                                                                                                                                                                                                       TYPE: DNA
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                                      1565 CGGCTGAGTCCAGCTC 1580
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: PCT/US01/00663
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17 CTGCTGAGTTCAGCTC 2
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                                                                               Conservative
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                                                                                                  Score 12.8;
Pred. No. 1.
                                                                               Mismatches
                                                                                                .7e+02
                                                                                                                     DB 1;
                                                                                                                   Length 17;
                                                                               Indels
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                                                                             Gaps
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US-10-061-201-124/c RESULT 230 PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR PELLING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 09/864,761
PRIOR APPLICATION NUMBER: US 60/328,205
PRIOR PILING DATE: 2001-10-10 GENERAL INFORMATION: Sequence 124, Appublication No. FILE REFERENCE: PB0178
CURRENT APPLICATION NUMBER: US/10/061,201
CURRENT FILING DATE: 2002-01-30 PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30 PRIOR APPLICATION NUMBER: PCT/US01/00668 PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30 PRIOR FILING DATE: 2001-01-30 PRIOR FILING DATE: 2001-01-30 PRIOR APPLICATION NUMBER: PCT/US01/00667 PRIOR APPLICATION NUMBER: PCT/US01/00666 TITLE OF INVENTION: PRIOR APPLICATION NUMBER: PCT/US01/00669 Aeomica Sequence Listing Engine Application US/10061201 ID NOS: 4162 US20030166229A1 HUMAN POSH-LIKE PROTEIN 1

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RESULT 232
US-09-817-879-481/c
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US-09-817-879-99/c
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APPLICANT: Ribozyme Pharmaceuticals Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
TITLE OF INVENTION: Hepatitis C Virus Infection
FILE REFERENCE: MBHB00-801-F
CURRENT APPLICATION NUMBER: US/09/817,879
CURRENT FILING DATE: 2001-03-26
NUMBER OF SEQ ID NOS: 9703
SOFTWARE: PatentIn version 3.0
SEQ ID NO 99
LENGTH: 17
TYPE: RNA
ORGANISM: artificial sequence
                                                                                                                                                                                                                         Sequence 481, Application US/09817879
Publication No. US20030171311A1
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
TITLE OF INVENTION: Hepatitits C Virus Infection
FILE REFERENCE: MBHB00-801-F
CURRENT APPLICATION NUMBER: US/09/817,879
CURRENT FILING DATE: 2001-03-26
NUMBER OF SEQ ID NOS: 9703
SOFTWARE: PatentIn version 3.0
SEQ ID NO 481
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LENGTH: 17
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Query Match 0.9%;
Best Local Similarity 87.5%;
Matches 14; Conservative
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Best Local Similarity 87.5%;
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                                    Query Match
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LOCATION:
OTHER INFORMATION: oligonucleotide substrate
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ORGANISM: Homo sapiens
                                                                                                                                                                   LENGTH: 17
TYPE: RNA
ORGANISM: artificial sequence
                                                                                         OTHER INFORMATION: oligonucleotide substrate
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Local Similarity 87.5%;
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No. US20030171311A1
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Pred. No. 1.7e+02;
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Pred. No. 1.7e+02;
                   Score 12.8; DB 1;
Pred. No. 1.7e+02;
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US-09-817-879-1421/c
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TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate.

TITLE OF INVENTION: Hepatitis C Virus Infection

FILE REFERENCE: MBHB00-801-F

CURRENT APPLICATION NUMBER: US/09/817,879

CURRENT FILING DATE: 2001-03-26

NUMBER OF SEQ ID NOS: 9703

SOFTWARE: PatentIn version 3.0

SEQ ID NO 1421
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LENGTH: 17
                                                                   Matches
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Best Local Similarity
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Best Local Similarity
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CURRENT FILING DATE: 2001-03-26
NUMBER OF SEQ ID NOS: 9703
SOFTWARE: PatentIn version 3.0
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TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate.
TITLE OF INVENTION: Hepatitis C Virus Infection
                                                                                                                                                                                                                                        LENGTH: 17
TYPE: RNA
                                                                                                                                                                               FEATURE: misc_feature
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NAME/KEY: misc_feature
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RESULT 235 US-09-817-879-3135

Sequence 3135,

Application US/09817879

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RESULT 237
US-09-817-879-4457
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Sequence 4457, Application US/09817879
Publication No. US20030171311A1
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
TITLE OF INVENTION: Hepatitis C Virus Infection
FILE REFERENCE: MBHB00-801-F
CURRENT APPLICATION NUMBER: US/09/817,879
CURRENT FILING DATE: 2001-03-26
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CURRENT FILING DATE: 2001-03-26
NUMBER OF SEQ ID NOS: 9703
SOFTWARE: PATENTIN VERSION 3.0
SEQ ID NO 3902
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Best Local Similarity
Matches 14; Conserva
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APPLICANT: Ribozyme Pharmaceuticals Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
TITLE OF INVENTION: Hepathtis C Virus Infection
FILE REFERENCE: MBHB00-801-F
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SEQ ID NO 3135
LENCTH: 17
TYPE: RNA
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Best Local :
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NUMBER OF SEQ ID NOS: 9703
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NAME/KBY: misc_feature
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LOCATION:
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Pred. No. 1.7e+02;
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Pred. No. 1.
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US-10-339-793-443/C
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TITLE OF INVENTION: POLYNUCLEOTIDES AND THE
TITLE OF INVENTION: TO STREPTOGRAMIN A OR TITLE OF INVENTION: COMPOUNDS
FILE REFERENCE: 03495.0173-00000
CURRENT APPLICATION NUMBER: US/10/392,970
CURRENT FILING DATE: 2003-03-21
PRIOR APPLICATION NUMBER: US/09/099,932
PRIOR FILING DATE: 1998-06-19
PRIOR FILING DATE: 1998-06-19
                                 CURRENT APPLICATION NUMBER: US/10/339,793
CURRENT FILING DATE: 2003-01-08
NUMBER OF SEQ ID NOS: 443
SOFTWARE: Patentin version 3.1
SEQ ID NO 443
                                                                                                                                                                                                                                 Sequence 443, Application US/10339793 Publication No. US20030180764A1 GENERAL INFORMATION:
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Best Local Similarity
Matches 14; Conser
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                                                                                                                                    TITLE OF INVENTION: GENES AFFECTED BY CHOLESTEROL TREATMENT AND DURING FILE REFERENCE: 37-000310US
                                                                                                                                                                           APPLICANT: Lynx Therapeutics, Inc
APPLICANT: Shang, Jin
APPLICANT: Bowen, Benjamin
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TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
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TYPE: DNA
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                      LENGTH:
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Pred. No. 1.7e
0; Mismatches
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Pred. No. 1.
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1.7e+02;
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US-10-209-787-1759
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PRIOR FILING DATE: 2001-03-27
PRIOR PELICATION NUMBER: US 60/192,176
PRIOR APPLICATION NUMBER: US 60/192,179
PRIOR APPLICATION NUMBER: US 60/192,179
PRIOR FILING DATE: 2000-03-27
PRIOR FILING DATE: 2000-03-27
PRIOR APPLICATION NUMBER: US 60/208,538
PRIOR FILING DATE: 2000-06-01
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LENGTH: 17
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APPLICANT: Kmiec, Eric B.
APPLICANT: Gamper, Howard B.
APPLICANT: Rice, Michael C.
APPLICANT: Rice, Michael C.
TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
TITLE OF INVENTION: Stranded Oligonucleotides
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Best Local Similarity 87.5%;
Matches 14; Conservative
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-10-209-787-1759
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                PRIOR APPLICATION NUMBER: US 09/818,875
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: US 60/192,176
PRIOR FILING DATE: 2000-03-27
PRIOR APPLICATION NUMBER: US 60/192,179
PRIOR FILING DATE: 2000-03-27
                                                                                                                                                   FILE REFERENCE: Napro-4
CURRENT APPLICATION NUMBER: US/10/209,787
CURRENT FILING DATE: 2002-07-30
                                                                                                                                                                                                               APPLICANT: Gamper Howard B.
APPLICANT: Rice, Michael C.
TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
TITLE OF INVENTION: Stranded Oligonucleotides
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NUMBER OF SEQ ID NOS: 4385
SOFTWARE: Friedman macro Napro4
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CURRENT FILING DATE: 2002-07-30
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Similarity 87.5%;
14; Conservative
CATION NUMBER: US 60/208,538
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5. US20030217377A1
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Pred. No. 1.7e+02;
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US-10-209-787-3315/c

Sequence 3315, Application US/10209787 Publication No. US20030217377A1 GENERAL INFORMATION:

APPLICANT: Kmiec, Eric B.
APPLICANT: Gamper, Howar
APPLICANT: Rice, Michael

Gamper, Howard B. Rice, Michael C.

FILE REFERENCE: Napro-4
CURRENT APPLICATION NUMBER: US/10/209,787
CURRENT FILING DATE: 2002-07-30

RIOR APPLICATION NUMBER: US 09/818,875

TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single TITLE OF INVENTION: Stranded Oligonucleotides

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RESULT 243
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US-10-209-787-3314
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PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: US 60/192,176
PRIOR APPLICATION NUMBER: US 60/192,176
PRIOR APPLICATION NUMBER: US 60/192,179
PRIOR FILING DATE: 2000-03-27
PRIOR FILING DATE: 2000-03-27
PRIOR APPLICATION NUMBER: US 60/208,538
PRIOR FILING DATE: 2000-06-01
PRIOR APPLICATION NUMBER: US 60/244,989
PRIOR FILING DATE: 2000-10-30
PRIOR FILING DATE: 2000-10-30
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PRIOR FILING DATE: 2000-10-30
NUMBER OF SEQ ID NOS: 4385
SOFTWARE: Friedman macro Napro4
SEQ ID NO 1760
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SEQ ID NO 3314
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Best Local Similarity
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GENERAL INFORMATION:
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CURRENT APPLICATION NUMBER: US/10/209,787
CURRENT FILING DATE: 2002-07-30
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APPLICANT: Rice, Michael C.
TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
TITLE OF INVENTION: Stranded Oligonucleotides
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APPLICANT: Gamper, Howar
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ORGANISM: Homo sapiens
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87.5%;
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Pred. No. 1.7e
0; Mismatches
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Pred. No. 1
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RESULT 245
US-10-060-830-701/c
; Sequence 701, Application US/10060830
                                                                                                                                                                                                                                                          ; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-060-830-700
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; ORGANISM: Homo sapiens
US-10-209-787-3315
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Best Local Similarity 87.5%;
Matches 14; Conservative
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Publication No. US20030032154A1
                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: Aeomica Sequence Listing Engine
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PRIOR APPLICATION NUMBER: US 60/325,062
PRIOR FILING DATE: 2001-09-25
NUMBER CO. T. 2001-09-25
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NUMBER OF SEQ ID NOS: 4385
SOFTWARE: Friedman macro Napro4
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APPLICANT: Nguyen, Cu
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ITLE OF INVENTION: HUMAN LCCL DOMAN CONTAINING PROTEIN
                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: PCT/US01/00664
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00669
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00665
FILING DATE: 2001-01-30
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APPLICATION NUMBER: PCT/US01/00663
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APPLICATION NUMBER:
FILING DATE: 2000-03
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3-27
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                                                                                                                                                                                                     Score 12.8;
Pred. No. 1
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Pred. No. 1.
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                                                                       SOFTWARE: Ae
SEQ ID NO 144
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Best Local Similarity
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                                                                                                                         NUMBER OF SEQ ID NOS: 4804
                                                                                                                                          PRIOR APPLICATION NUMBER: US 60/327,898 PRIOR FILING DATE: 2001-10-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/10/060,756A
CURRENT FILING DATE: 2002-01-30
PRIOR APPLICATION UNMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
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PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
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PRIOR TILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
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TITLE OF INVENTION: HUMAN LCCL DOMAN CONTAINING PROTEIN
                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
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PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
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ORGANISM: Homo sapiens
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PRIOR APPLICATION NUMBER: US 09/864,761
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ORGANISM: Homo sapiens
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                                                                                           Aeomica Sequence Listing Engine
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Pred. No. 1.
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GENERAL INFORMATION
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Publication No.
                                                    PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR PPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
                                                                                                                                                                                APPLICANT: Zhang, Jian
TITLE OF INVENTION: HUMAN TESTIS EXPRESSED PATCHED LIKE PROTEIN
FILE REFERENCE: PB0177
CURRENT APPLICATION NUMBER: US/10/060,756A
CURRENT FILING DATE: 2002-01-30
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CURRENT APPLICATION NUMBER: US/10/060,756A
CURRENT FILING DATE: 2002-01-30
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
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TYPE: DNA
ORGANISM: Homo sapiens
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                                     APPLICATION NUMBER: PCT/US01/00665
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Pred. No. 1.7e+02;
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Pred. No. 1.
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RESULT 250 US-10-060-998-588/c

Sequence 588, Application US/10060998 Publication No. US20030104530A1 GENERAL INFORMATION:

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Best Local Similarity
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                                                                                                                                                 ; TYPE: DNA; Homo sapiens; ORGANISM: Homo sapiens US-10-060-756A-1677
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US-10-060-756A-1677/c
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; ORGANISM: Homo sapiens
US-10-060-756A-1675
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SOFTWARE: Aeomica Sequence
SEQ ID NO 1677
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                                                                          Matches
                                                                                          Query Match
Best Local
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CURRENT FILING DATE: 2002-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
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PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 09/864,761
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TITLE OF INVENTION: HUMAN TESTIS EXPRESSED PATCHED LIKE PROTEIN
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PRIOR APPLICATION NUMBER: US 60/327,898
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PRIOR APPLICATION NUMBER: US
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                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: US 09/864,761
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PRIOR APPLICATION NUMBER: PCT/US01/00663
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nes 14; Conserv
                       2186 ATGTGATGAAAATAGC 2201
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ATGTTATAAAAATAGC
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                                                                                            Score 12.8;
Pred. No. 1.
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Pred. No. 1.7e+02;
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                                                                                              1.7e+02;
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US-10-060-998-589/c
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CURRENT FILING DATE: 2002-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 09/864,761
PRIOR TILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/343,331
PRIOR APPLICATION NUMBER: US 60/343,331
PRIOR FILING DATE: 2001-12-21
PRIOR FILING DATE: 2001-12-21
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: McSwiggen, Jim
TITLE OF INVENTION: Nucleic acid treatment
TITLE OF INVENTION: HER2
FILE REFERENCE: MBHB01-1653-A (400/014)
CURRENT APPLICATION UMBER: US/10/163,552
CURRENT FILING DATE: 2002-06-06
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LENGTH: 17
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Publication No. US20030105051A1
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Best Local Similarity 87.5%;
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CURRENT FILING DATE: 2002-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 09/864,761
PRIOR APPLICATION NUMBER: US 60/343,331
PRIOR APPLICATION NUMBER: US 60/343,331
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TITLE OF INVENTION: HUMAN SODIUM-HYDROGEN EXCHANGER LIKE PROTEIN 1
FILE REFERENCE: PB01108
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SOFTWARE: Aeomica Sequence Listing Engine
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: HUMAN SODIUM-HYDROGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
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Pred. No. 1.
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Pred. No. 1.7e+02;
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                                                                                   of diseases or conditions related to leve
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; ORGANISM: Homo sapiens
US-10-163-552-935
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Best Local Similarity
Matches 10; Conserve
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                                  Matches
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SEQ ID NO 228
LENGTH: 17
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                                                               Query Match
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Best Local Similarity
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                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/10/156,306
CURRENT FILING DATE: 2002-05-28
NUMBER OF SEQ ID NOS: 8013
                                                                                                                                                                                                                                                 FILE REFERENCE: MBHB01-664-A (400/050)
                                                                                                                                                                                                                                                                TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases TITLE OF INVENTION: Levels of IKK-Gamma and PKR
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CURRENT APPLICATION NUMBER: US/10/163,552
CURRENT FILING DATE: 2002-06-06
NUMBER OF SEQ ID NOS: 1997
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TITLE OF INVENTION: Nucleic acid treatment
TITLE OF INVENTION: HER2
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                                                                                                                                   TYPE: RNA
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2645 CTTCAGGAGATGATTC 2660
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Pred. No. 1.7e
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US-10-156-306-365
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; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-156-306-364
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US-10-156-306-365
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FILE REFERENCE: MBHB01-664-A (400/050)
CURRENT APPLICATION NUMBER: US/10/156,306
CURRENT FILING DATE: 2002-05-28
NUMBER OF SEQ ID NOS: 8013
SOFTWARE: PatentIn version 3.0
SEQ ID NO 365
LENGTH: 17
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Best Local Similarity 62.5%;
Matches 10; Conservative
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Best Local
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CURRENT APPLICATION NUMBER: US/10/156,306
CURRENT FILING DATE: 2002-05-28
NUMBER OF SEQ ID NOS: 8013
                   APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: McSwiggen, James
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases
TITLE OF INVENTION: Levels of IKK-Gamma and PKR
FILE REFERENCE: MBHB01-664-A (400/050)
CURRENT FILING DATE: 2002-05-28
CURRENT FILING DATE: 2002-05-28
NUMBER: QF SEQ ID NOS: 8013
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PatentIn version 3.0
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o. US20030119017A1
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Pred. No. 1.7e+02;
4; Mismatches 2;
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Pred. No. 1.7e+02;
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LENGTH: 17
TYPE: RNA
ORGANISM: Homo sapiens
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US-10-156-306-2834
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US-10-156-306-1545
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US-10-156-306-1545
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Publication No. US20030119017A1
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: McSwiggen, James
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate-
TITLE OF INVENTION: Levels of IKK-Gamma and PKR
FILE REFERENCE: MBH801-664-A (400/050)
CURRENT APPLICATION NUMBER: US/10/156,306
CURRENT FILING DATE: 2002-05-28
NUMBER OF SEQ ID NOS: 8013
                                                                                                                                                                                             SOFTWARE: PatentIn version 3.0 SEQ ID NO 2834 LENGTH: 17
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Best Local Similarity
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Best Local Similarity 87.5%;
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CURRENT APPLICATION NUMBER: US/10/156,306
CURRENT FILING DATE: 2002-05-28
NUMBER OF SEQ ID NOS: 8013
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                                  ATAGCAGACTTTGGAC 2212
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Pred. No. 1.7e+02;
5; Mismatches 2
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Pred. No. 1.7
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Pred. No. 1.
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                                                                                                                                                                                                                                       RESULT 262
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US-10-156-306-4950
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; ORGANISM: Homo sapiens
US-10-156-306-4426
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 4950
LENGTH: 17
TYPE: RNA
                                                                                                                                                     Sequence 616, Application US/09263959
Patent No. US20020150891A1
GENERAL INFORMATION:
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate TITLE OF INVENTION: Levels of IKK-Gamma and PKR FILE REFERENCE: MBHB01-664-A (400/050) CURRENT APPLICATION NUMBER: US/10/156,306 CURRENT FILING DATE: 2002-05-28 NUMBER OF SEQ ID NOS: 8013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/10/156,306
CURRENT FILING DATE: 2002-05-28
NUMBER OF SEQ ID NOS: 8013
SOFTWARE: Patentin version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: McSwiggen, James
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases
TITLE OF INVENTION: Levels of IKK-Gamma and PKR
FILE REFERENCE: MBHB01-664-A (400/050)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: McSwiggen, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Ribozyme Pharmaceuticals, Inc. APPLICANT: McSwiggen, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: RNA
                                       APPLICANT: Hood, Leroy E.

APPLICANT: Rowen, Lee
APPLICANT: Koop, Ben F.

TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH UTI
NUMBER OF SEQUENCES: 1279
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STREET:
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                    ADDRESSEE:
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6300 Columbia Center,
                  Seed and Berry LLP
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Pred. No. 1.7e
2; Mismatches
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Pred. No. 1
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  701 Fifth Avenue
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US-09-263-959-638
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Best Local Similarity 92.9%;
Matches 13; Conservative
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INFORMATION FOR SEQ ID NO:
                                                    TELEFAX: (206) 682-603
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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APPLICANT:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                         COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIA Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/263,959
FILING DATE: 05-MAR-1999
CLASSIFICATION:
                                                                                                             TELECOMMUNICATION INFORMATION: TELEPHONE: (206) 622-4900
                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: KOOMEN, Lee
APPLICANT: KOOD, BEN F.
TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH UTI
NUMBER OF SEQUENCES: 1279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION:
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                                                                                                                                              NAME: McMasters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 920010.426C2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 920010.426C2
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                                                                                                                                                                                                                                                                                                                                                                                                                                      STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: Seattle
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STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                Washington
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                                   14 base pairs
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US-09-263-959-638

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Query Match

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                                                                                                              SEQ ID NO,5
                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
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Best Local Similarity
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                                                                                                                                CURRENT FILING DATE: 2002-02-15
PRIOR APPLICATION NUMBER: 09/53,366
PRIOR FILING DATE: 2000-03-24
PRIOR APPLICATION NUMBER: 60/125,864
PRIOR FILING DATE: 1999-03-24
NUMBER OF SEQ ID NOS: 5
SOFTWARE: Patentin Ver: 2.1
                                                                                                                                                                                                                                                     FILE REFERENCE: UTSD:557
CURRENT APPLICATION NUMBER: US/10/077,508
CURRENT FILING DATE: 2002-02-15
                                                                                                                                                                                                                                                                                                           APPLICANT: JOHNSTON, STEPHEN A.
TITLE OF INVENTION: LINEAR AND CIRCULAR EXPRESSION ELEMENTS
                                                                                                                                                                                                                                                                                                                                 APPLICANT: SYKES, APPLICANT: JOHNS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 09/535,366
PRIOR FILING DATE: 2000-03-24
PRIOR APPLICATION NUMBER: 60/125,864
PRIOR FILING DATE: 1999-03-24
NUMBER OF SEQ ID NOS: 5
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CURRENT FILING DATE: 2002-02-15
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TITLE OF INVENTION: LINEAR AND CIRCULAR EXPRESSION ELEMENTS
FILE REFERENCE: UTSD:557
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OTHER INFORMATION: Description of Artificial Sequence:
OTHER INFORMATION: Primer
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TYPE: RNA
ORGANISM: Artificial Sequence
OTHER INFORMATION: OTHER INFORMATION:
                                      ORGANISM: Artificial Sequence FEATURE:
                                                                                              ENGTH:
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Description of Artificial Sequence: Primer
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Pred. No. 1.3e+02;
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Pred. No. 1.3e+02;
0; Mismatches 1;
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                    Synthetic
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; ORGANISM: Homo sapiens
US-10-277-494-74
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Matches
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                                   Matches
                                                                                                                                                                                                                       SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 3, Application US/10077621 Publication No. US20020146733A1
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                                 Best Local Similarity
Matches 9; Conserv
                                                               Query Match
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CURRENT FILING DATE: 2002-02-15
PRIOR APPLICATION NUMBER: 09/535,366
PRIOR FILING DATE: 2000-03-24
PRIOR APPLICATION NUMBER: 60/125,864
PRIOR FILING DATE: 1999-03-24
NUMBER OF SEQ ID NOS: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: McSwiggen, Jim
ITILE OF INVENTION: Nucleic Acid Treatment of Diseases or conditions Related To Level
TITLE OF INVENTION: Epidermal Growth Factor Receptors
FILE REFERENCE: MBHB00-958-K (400/064)
CURRENT APPLICATION NUMBER: US/10/277,494
CURRENT FILING DATE: 2002-10-21
NUMBER OF SEQ ID NOS: 446
                                                                                                                                                                                                                                        SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: JOHNSTON, STEPHEN A.
TITLE OF INVENTION: LINEAR AND CIRCULAR EXPRESSION ELEMENTS
FILE REFERENCE: UTSD:557
                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: SYKES, APPLICANT: JOHNS
                                                                                                                  FEATURE: OTHER INFORMATION: Description of Artificial Sequence: OTHER INFORMATION: Primer
                                                                                                                                                             TYPE: RNA
ORGANISM: Artificial Sequence
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                                                                                                                                                                                                       LENGTH: 14
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Local Similarity 71.4%;
hes 10; Conservative
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Pred. No. 1.3e+02;
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Pred. No. 1.
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Pred. No. 1
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RESULT 270
US-10-077-232-5/c
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Best Local Similarity
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Publication No. US20020150940A1
GENERAL INFORMATION:
APPLICANT: SYKES, KATHRYN F.
APPLICANT: JOHNSTON, STEPHEN A.
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                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: 60/125,864
PRIOR FILING DATE: 1999-03-24
NUMBER OF SEQ ID NOS: 5
SOFTWARE: Patentin Ver. 2.1
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CURRENT APPLICATION NUMBER: US/10/077,232
CURRENT FILING DATE: 2002-02-15
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CURRENT FILLING DATE: 2002-02-15
PRIOR APPLICATION NUMBER: 09/535,366
PRIOR FILING DATE: 2000-03-24
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TITLE OF INVENTION: LINEAR AND CIRCULAR EXPRESSION ELEMENTS
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APPLICANT: JOHNSTON, STEPHEN A.
TITLE OF INVENTION: LINEAR AND CIRCULAR EXPRESSION ELEMENTS
FILE REFERENCE: UTSD:557
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SOFTWARE: PatentIn Ver. 2.1
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PRIOR FILING DATE: 1999-03-24
                                                                                                                                                                                                                                                                                                              LENGTH: 14
TYPE: RNA
ORGANISM: Artificial Sequence
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TYPE: RNA
ORGANISM: Artificial Sequence
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Local Similarity 92.9%;
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Pred. No. 1.
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                                          Query Match
Best Local Similarity 64...
Thes 9; Conservative
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NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
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SEQ ID NO 5
LENGTH: 14
TYPE: RNA
ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: LINEAR AND CIRCULAR EXPRESSION ELEMENTS FILE REFERENCE: UTSD:557
CURRENT APPLICATION NUMBER: US/10/077,247
CURRENT FILING DATE: 2002-02-15
PRIOR APPLICATION NUMBER: 09/535,366
PRIOR FILING DATE: 2000-03-24
PRIOR APPLICATION NUMBER: 60/125,864
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CURRENT FILING DATE: 2002-02-15
PRIOR APPLICATION NUMBER: 09/535,366
PRIOR FILING DATE: 2000-03-24
PRIOR APPLICATION NUMBER: 60/125,864
PRIOR FILING DATE: 1999-03-24
NUMBER OF SEQ ID NOS: 5
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APPLICANT: JOHNSTON, STEPHEN A.
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APPLICANT: JOHNSTON, STEPHEN A.
TITLE OF INVENTION: LINEAR AND CIRCULAR EXPRESSION ELEMENTS
FILE REFERENCE: UTSD:557
                                                                                                                                                                                                                 ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                      TYPE: RNA
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Pred. No. 1
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Pred. No. 1.3e+02;
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RESULT 272 US-10-077-247-5/c

Sequence 5, Application US/10077247 Publication No. US20020155508A1

KATHRYN F.

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US-10-077-392-5/c
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OTHER INFORMATION: Description of Artificial Sequence:
OTHER INFORMATION: Primer
US-10-077-247-5
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                                                                    Sequence 5, Application US/10077392 Publication No. US20020160402A1 GENERAL INFORMATION:
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NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.1
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PRIOR FILING DATE: 2000-03-24
PRIOR APPLICATION NUMBER: 60/125,864
PRIOR FILING DATE: 1999-03-24
NUMBER OF SEQ ID NOS: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: UTSD:557
CURRENT APPLICATION NUMBER: US/10/077,392
CURRENT FILING DATE: 2002-02-15
                                  APPLICANT: SYKES, APPLICANT: JOHNS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT FILING DATE: 2002-02-15
PRIOR APPLICATION NUMBER: 09/535,366
PRIOR FILING DATE: 2000-03-24
PRIOR APPLICATION NUMBER: 60/125,864
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TITLE OF INVENTION: LINEAR AND CIRCULAR EXPRESSION ELEMENTS
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CURRENT APPLICATION NUMBER: US/10/077,247
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TITLE OF INVENTION: LINEAR AND CIRCULAR EXPRESSION ELEMENTS
FILE REFERENCE: UTSD:557
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TYPE: RNA
ORGANISM: Artificial Sequence
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                 PLICANT: JOHNSTON, STEPHEN A.
TLE OF INVENTION: LINEAR AND CIRCULAR EXPRESSION ELEMENTS
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Similarity 92.9%;
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                                                                                                                                                                                                      AUGAUGAUGAUGAU 14
                                                                                                                                                                                                                                                                               Conservative
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                                                       KATHRYN F.
                                                                                                                                                                                                                                                                                                                                                                       Description of Artificial Sequence: Synthetic Primer
                                                                                                                                                                                                                                                                                              0.9%;
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Pred. No. 1.3e+02;
                                                                                                                                                                                                                                                                                                Score 12.4; DB 1;
Pred. No. 1.3e+02;
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                                                                                                                                                                                                                  RESULT 276
US-09-848-754A-9628
                                                                                                                                                                                                                                                                                                                                                                                                                                     ; OTHER INFORMATION: Description of Artificial Sequence: Probe US-09-771-933-174
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US-09-771-933-174/c
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     Sequence 9628, Application US/09848754A

Publication No. US20030073207A1

GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc.
TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions
TITLE OF INVENTION: Levels of Epidermal Growth Factor Receptors
FILE REFERENCE: MEHB00-958-I (400/018)
CURRENT APPLICATION NUMBER: US/09/848,754A
CURRENT FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 9645
SOFTWARE: Patentin version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 174
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Best Local Similarity
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SEQ ID NO 9628
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CURRENT FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 60/125,864
PRIOR FILING DATE: 1999-03-24
NUMBER OF SEQ ID NOS: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Gill-Garrison, Rosalynn D
APPLICANT: Martin, Christopher J
APPLICANT: Sanchez-Felix, Manuel V
TITLE OF INVENTION: Computer-assisted
TITLE OF INVENTION: Factors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Ver. 2.1
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CURRENT FILING DATE: 2002-02-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: 09/535,366
PRIOR FILING DATE: 2000-03-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE: 620-130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: Description of Artificial Sequence: OTHER INFORMATION: Primer
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Pred. No. 1.
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Pred. No. 1.
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L.3e+02;
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US-09-943-983-157/c
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                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 08/913,833
APPLICATION NUMBER: EP 56870005.4
APPLICATION NUMBER: EP 56870005.4
APPLICATION NUMBER: EP 96870081.5
APPLICATION NUMBER: EP 96870081.5
PILING DATE: 25 Jun 1996
APPLICATION NUMBER: EP 96870081.5
APPLICATION NUMBER: EP 970081.5
ATTORNEY/AGENT INFORMATION
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: 1NNS:008
INFORMATION FOR SEQ ID NO: 157:
SEQUENCE CHARACTERISTICS:
                                                                        Matches
                                                                                        Query Match
Best Local Similarity
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Best Local Similarity
Matches 10; Conserv
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ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/943,983

FILING DATE: 31-Aug-2001

PRIOR APPLICATION DATA:
                                                                                                                                                                                                                   TOPOLOGY: linear MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ROSSAU, RUDI
TITLE OF INVENTION: METHOD FOR DETECTION OF DRUG-INDUCED
MUTATIONS IN THE REVERSE TRANSCRIPTASE GENE
                                 1856 TTTCTGATCTGGTG 1869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 164
CORRESPONDENCE ADDRESS:
ADDRESSEE ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: STUYVER, LIEVEN LOUWAGIE, JOOST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2317 CATCAGAGTGATGT 2330
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                                                                                                                                                                                                     HYPOTHETICAL: NO
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                                                                                                                                                                                                                                                      TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: HOUSTON
STATE: TEXAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: USA
ZIP: 77210-4433
                                                                                                                                                                                                                                                                                               LENGTH: 15 base pairs
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o. US20030077575A1
                                                                        Conservative
                                                                                        0.9%;
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                                                                  Score 12.4; DI
Pred. No. 1.5e
0; Mismatches
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Pred. No. 1.5e+02;
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                                                                                         1.5e+02;
                                                                                                       DB 1; Length 15;
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                                                                                                                                                                             ; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-440-850-911
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US-10-440-850-911/c
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; SEQ ID NO 57

; LENGTH: 15

; TYPE: RNA

; ORGANISM: Homo sapiens

US-10-277-494-57
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US-10-277-494-57
                                                                                                                                                                                                                                                            PRIOR FILING DATE: 1998-03-11
NUMBER OF SEQ ID NOS: 2285
SOFTWARE: PatentIn version 3.0
SEQ ID NO 911
                                                                                    Query Match
Best Local Similarity
Matches 13; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 911, Application US/10440850 Publication No. US20030207837A1 GENERAL INFORMATION:
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APPLICANT: Ribozyme Pharmaceuticals, Inc.
APPLICANT: McSwiggen, Jim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 57, Application US/10277494 Publication No. US20030186909A1
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TITLE OF INVENTION: Method and Reagent for the Induction of Graft Tolerance
TITLE OF INVENTION: Immune Responses
FILE REFERENCE: 250/130 (MSHB00-900-A)
CURRENT APPLICATION NUMBER: US/10/440,850
CURRENT FILING DATE: 2003-05-19
PRIOR APPLICATION NUMBER: US/99/650,012
PRIOR FILING DATE: 2000-08-28
PRIOR APPLICATION NUMBER: US 08/585,684
PRIOR APPLICATION NUMBER: US 08/585,684
PRIOR APPLICATION NUMBER: US 60/000,951
PRIOR FILING DATE: 1996-01-12
PRIOR FILING DATE: 1995-07-07
PRIOR FILING DATE: 1995-07-07
PRIOR FILING DATE: 1995-07-07
PRIOR FILING DATE: 1995-07-07
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Ribozyme Pharmaceuticals, Inc APPLICANT: Stinchcomb, Dan
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CURRENT FILING DATE: 2002-10-21
NUMBER OF SEQ ID NOS: 446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: US 09/038,073
                                                                                                                                                                                                                                              LENGTH: 15
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Local Similarity 71.4%;
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14 GAAGATGATGGGGA 1
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                                                                                      Conservative
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                                                                                                         0.9%; Score 12.4;
92.9%; Pred. No. 1.
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Pred. No. 1.
                                                                                        Mismatches
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RESULT 280 US-10-097-175-50

Sequence 50, Application US/10097175 Publication No. US20030045680A1

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US-10-287-919-2272/c
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                                                                                                                                                                                                                                                                                                                            ; LENGTH: 15
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-010-802-192
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                                                                                                 RESULT 282
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                                     Sequence 2272, Application US/10287919 Publication No. US20030085830A1
                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Patentin Ver. SEQ ID NO 192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
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Best Local Similarity 92.9%;
Matches 13; Conservative
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 192, A Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Stephens, J. Claiborne
APPLICANT: Windemuth, Andreas
TITLE OF INVENTION: Drug Target Isogenes: Polymorphisms in the Interleukin
TITLE OF INVENTION: 4 Receptor Alpha Gene
FILE REFERENCE: MMH-0002US2 IL4R alpha
CURRENT APPLICATION UNMEER: US/10/010,802
CURRENT FILING DATE: 2001-11-09
PRIOR APPLICATION NUMBER: DSC1/US00/19094
PRIOR APPLICATION NUMBER: DSC1/US00/19094
PRIOR PILING DATE: 2000-07-13
NUMBER OF SEQ ID NOS: 413
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PRIOR FILING DATE: 2002-01-28
NUMBER OF SEQ ID NOS: 102
SOFTWARE: FastSEQ for Windows Version 4.0
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TITLE OF INVENTION: PEPTIDIC MODULATORS OF THE ANDROGEN RECEPTOR FILE REFERENCE: PPI-110

CURRENT APPLICATION NUMBER: US/10/097,175

CURRENT FILING DATE: 2002-03-12

PRIOR APPLICATION NUMBER: 60/275,240

PRIOR FILING DATE: 2001-03-12

PRIOR FILING DATE: 2001-03-12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Artificial Sequence
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b. US20030078220A1
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Richard J.; Global Determinants,
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Pred. No. 1
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Pred. No. 1.5e+02;
0; Mismatches 1;
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; OTHER INFORMATION: Chromosome = 1
US-10-287-919-2272
                                                                                                                                                                                                                                                                                                                        RESULT 284
US-09-837-992-29
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US-10-287-919-2400/c
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; LENGTH: 15
; TYPE: DNA
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APPLICANT: Feldmann, Richard J.; Global Determinants,
APPLICANT: Feldmann, Richard J.; Global Determinants,
TITLE OF INVENTION: Methanococcus jannaschii complete
FILE REFERENCE: Jim Zegeer Law Offices - 703-684-8333
CURRENT APPLICATION NUMBER: US/10/287,919
CURRENT FILING DATE: 2002-11-05
NUMBER OF SEQ ID NOS: 2706
SOFTWARE: Proprietary
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SOFTWARE: Proprietary
SEQ ID NO 2272
LENGTH: 15
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                                                                                                                                                                                                                                                                               Sequence 29, Application US/09837992
Patent No. US20020081687A1
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Best Local Similarity
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APPLICANT: Schul
APPLICANT: Shan,
                                                                            TITLE OF INVENTION: Sitosterolemia Susceptibility Gene (SSG): TITLE OF INVENTION: and Methods of Use FILE REFERENCE: 018781-006020US CURRENT APPLICATION NUMBER: US/09/837,992 CURRENT FILING DATE: 2001-04-18
PRIOR APPLICATION NUMBER: US 60/198,465
PRIOR FILING DATE: 2000-04-18
PRIOR APPLICATION NUMBER: US 60/204,234
PRIOR FILING DATE: 2000-05-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: Methanococcus jannaschii complete genome.
FILE REFERENCE: Jim Zegeer Law Offices - 703-684-8333
CURRENT APPLICATION NUMBER: US/10/287,919
CURRENT FILING DATE: 2002-11-05
                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA ORGANISM: Methanococcus jannaschii complete genome. FEATURE:
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LOCATION: (1475658)...(1475673)
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Pred. No. 1.
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Pred. No. 1.5e+02;
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Sequence 26, Application US/09816460C

Publication No. US20030087235A1

GENERAL INFORMATION:
APPLICANT: Dairkee, Shanaz H.
APPLICANT: Li, Zheng
TITLE OF INVENTION: PROGNOSTIC METHODS FOR BREAST CANCER
FILE REFERENCE: CPMC-010/00US
CURRENT APPLICATION NUMBER: US/09/816,460C
CURRENT APPLICATION NUMBER: US/09/816,460C
CURRENT FILING DATE: 2001-03-23
NUMBER OF SEQ ID NOS: 47
SOFTWARE: Patentin version 3.1
SEQ ID NO 26
LENGTH: 16
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic primer
US-09-816-460C-26
Search completed: December 1, 2003, 12:01:49 Job time : 5 secs
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US-09-816-460C-26
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; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: 5' splicing site for exon
US-09-837-992-29
                                                                                                                                                                          Query Match 0.9%; Score 12.4; DB 1; Length 16; Best Local Similarity 92.9%; Pred. No. 1.7e+02; Matches 13; Conservative 0; Mismatches 1; Indels
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SEQ ID NO 29
                                                                                                                  2500 GTGCCCTCCCAGAG 2513
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Title:

1404

Scoring table: Sequence: Perfect score:

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OM nucleic -

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Run on:

December

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 2 summaries
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12 bp mRNA linear EST 06-DEC E012340w-024-010-G19-SP6 MPIZ-ADIS-024-leaf Beta vulgaris cDNA clone 024-010-G19 5-PRIME, mRNA secuence
                              ADIS DNA core facility at MPIZ
Max-Planck-Institute for Plant Breeding Research
Carl-von-Linne Weg 10, 50829 Koeln, Germany
Fax: 00492215062851
                                                                                                                          Construction of a 'unigene' cDNA clone set by oligonucleotide fingerprinting allows access to 25 000 potential sugar beet genes Plant J. 32 (5), 845-857 (2002)

Contact: Weisshaar B
                                                                                                                                                                                                                                                                                                  Eukaryotā; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Caryophyllales; Amaranthaceae; Beta.

1 (bases 1 to 12)
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BQ587288.1 GI:26116870
                                                                                                                                                                                                                                               Herwig,R., Schulz,B., Weisshaar,B., Hennig,S., Steinfath,M., Drungowski,M., Stahl,D., Wruck,W., Menze,A., O'Brien,J., Lehrach,H
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  weisshaa@mpiz-koeln.mpg.de
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AUTHORS
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VERSION
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BQ587706/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE
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                                                                                                                                                   source
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11;
                                                                                                                                                                                            ADIS DNA core facility at MPIZ
Max-Planck-Institute for Plant Breeding Research
Carl-von-Line Weg 10, 50829 Koeln, Germany
                                                                                                                                                                                                                                                                                                                                                                                                                     Construction of a 'unigene' cDNA clone set by oligonucleotide fingerprinting allows access to 25 000 potential sugar beet genes plant J. 32 (5), 845-857 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Herwig,R., Schulz,B., Weisshaar,B., Hennig,S., Steinfath,M., Drungowski,M., Stahl,D., Wruck,W., Menze,A., O'Brien,J., Lel and Radelof,U.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Caryophyllales; Amaranthaceae; Beta.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BQ587706 12 bp mRNA linear EST 06-DEC-2002
E012340-024-010-G19-SP6 MPIZ-ADIS-024-leaf Beta vulgaris cDNA clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Beta vulgaris
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Plate: 10 row: G
                                                                                                                                                                                                                                                                                                                                                                                              Contact: Weisshaar B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Beta vulgaris
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BQ587706.1 GI:26117288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             024-010-G19 5-PRIME, mRNA sequence.
                                                                                                                                                                                                                                                                                                     Fax: 00492215062851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGGAAGAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (bases 1 to 12)
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primer: SP6; CATACGATTTAGGTGACACTATAG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SP6-Sall-CCACGCGTCCG-5prime-cDNA-polyA-CC-Notl-T7; Note: Sequencing granted in the context of the GABI-Beet projec local PI: Dr. Katharina Schneider, coordinator: Prof. Christian Jung; Sequence submission managed by RZPD/GABI-Primary database:http://gabi.rzpd.de" a C 0 g 8 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /clone lib="MPIZ-ADIS-024-laaf"
/note="Vector: pCMV90RT6; Site 1: Sall; Site 2: Notl;
/nota=Tyector: pCMV90RT6; Site 1: Sall; Site 2: Notl;
cDNA library from sugar beet, library provided by KWS
Kleinwanzlebener Saatzucht AG Einbeck, Germany, contact
b.schulz@kws.de; cloning sites Sall-Notl, primer sites
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        orientation:
/db_xref="GABI:185160"
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                                                                                                organism="Beta vulgaris"
                                                                                                                                                                          Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism="Beta vulgaris"
/mol_type="mRNA"
/cultivar="KWS2320 (double haploid, monogerm breeding line
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                            cultivar="KWS2320 (double haploid,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tissue_type="leaf"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     db_xref="GABI:185570"
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Pred. No. 0;
0; Mismatches 1;
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Length 12; Indels

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Gaps

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RESULT 1 BQ587288/c

DEFINITION

Result

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Score 10.4 10.4

0.7

Database

rst.seq:\*

Maximum Minimum

DB DB

eq seq

length:

ACCESSION VERSION KEYWORDS

ORGANISM

Beta vulgaris

REFERENCE

AUTHORS

COMMENT

monogerm

breeding

JOURNAL

TITLE

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Search completed: December 1, 2003, 12:04:41 Job time : 0.001 secs
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/clone_lib
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